

Casio FX-850P Libreria interna

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10 MODE 8:DEFSEG=0:GOTO 110
20 GOSUB 20
30 OPEN p$ FOR INPUT AS #1:IF ASC(INPUT$(1,1))<>2 THEN CLOSE:GOTO 30 ELSE
RETURN
50 IF g$="" THEN RETURN ELSE GOSUB 70:FOR k=1 TO LEN(g$):k$=MID$(g$,k,1):MODE
32(k$):NEXT:g$="":FOR l=0 TO k-2:g$=g$+CHR$(PEEK(l+768)):NEXT:RETURN
70 POKE 768,0:POKE 769,0:POKE 1608,0:POKE 1609,3:RETURN
90 n=PEEK(e):e=e-1:RETURN
110 n$="":a=2:a$="":j$="":i=0:p$="":m=512:f$="":c$="":o=0:g=0:e=0:d=0:e$=""
120
p=0:b$="":k=0:g$="":c=0:w=0:u=0:v=0:s=0:o$="":i$="":q=0:h$="":r=0:m$="":k$="":h
=0:f=0:t=0:l=0:b=0:x=0:y=0:n=0:d$=""
200 IF PEEK(m)=32 THEN m=m+1:GOTO 200
210 IF PEEK(m)=4 AND PEEK(m+1)=180 THEN f$="VF":GOSUB 2190:GOSUB 2120:GOSUB
2220:GOTO 410
220 IF PEEK(m)<>4 OR PEEK(m+1)<>179 THEN a
230 n=PEEK(m+a):IF n=32 THEN a=a+1:GOTO 230
240 IF n=0 OR n=34 OR n=48 OR n=49 THEN f$="PF":GOSUB 2190:GOSUB 2120:GOSUB
2220:GOTO 410
250 IF n=7 AND PEEK(m+a+1)=187 THEN f$="AF":a=a+2:GOSUB 2190:GOSUB 2120:GOSUB
2220:GOTO 410
260 IF n=35 THEN f$="MF":a=a+1:GOSUB 2190:GOSUB 2120 ELSE a
270 n=PEEK(m+a)
280 IF n=0 THEN g=0:GOTO 410
290 IF n=32 THEN a=a+1:GOTO 270
300 IF n=44 THEN a=a+1:GOSUB 2250:IF n=77 THEN g=1:GOSUB 2220 ELSE a ELSE a
410 a=1709:o=(PEEK(a+1))*256+(PEEK(a))-1:f=o:e=o:h=o-FRE(1)+1
430 FOR d=1867 TO 1874:e$=e$+CHR$(PEEK d):NEXT
460 b$="":a$="":OPEN p$ FOR INPUT AS #1:p=ASC(INPUT$(1,1)):IF p<144 THEN
CLOSE:GOTO 460
470 b$=INPUT$(10,1):CLOSE
490 IF p MOD 16=15 THEN a$="":GOTO 510
500 FOR k=1 TO 8:j$=MID$(b$,k,1):IF j$<>CHR$(7) THEN a$=a$+j$:NEXT
510 i=ASC(MID$(b$,10)):c=VAL("&h"+MID$(HEX$(p),3,1))-8
520 IF c<2 THEN n$="MF":GOTO 560
530 IF c=6 THEN n$="VF":GOTO 560
540 IF c=3 OR c=7 THEN n$="AF":GOTO 560
550 n$="PF"
560 g$a$:GOSUB 50:b$=g$:PRINT b$;TAB(9);n$;:PRINT
570 IF f$<>n$ THEN 460
580 IF c$<>" AND c$<>b$ THEN 460
600 ON c GOTO 810,, ,810,810,810
710 GOSUB 30
720 n=ASC(INPUT$(1,1)):IF n=255 OR n=241 THEN 730 ELSE d$=d$+CHR$(n):GOTO 720
730 CLOSE:g$d$:GOSUB 50:d$=g$
735 IF LEN(d$)>8 THEN READ $
740 IF LEN(d$)<8 THEN d$=d$+CHR$(0):GOTO 740
750 IF e$=d$ THEN 810
760 PASS d$
810 GOSUB 30:MODE 35(:CLOSE:f=PEEK(1609)*256+PEEK(1608))-1
1010 IF f$="VF" THEN 10010 ELSE PRINT "Converting...";

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1020 IF f$="MF" THEN 6010
1030 IF f$="PF" THEN 1140
1110 w=48:o$=HEX$(PEEK(1715)+PEEK(1716)*256-15):POKE
1616,VAL("&h"+RIGHT$(o$,2)):POKE 1617,VAL("&h"+LEFT$(o$,2))
1130 FOR k=48 TO 57:k$=CHR$(k):MODE 30(k$):NEXT:GOTO 1160
1140 w=PEEK(PEEK(1611)*256+PEEK(1610)+8):k$=CHR$(w):MODE 30(k$)
1160 q=0:x=0:y=0:l=0:GOSUB 70:GOSUB 2040:u=n:GOSUB
90:v=n:o$=RIGHT$(HEX$(v),2)+RIGHT$(HEX$(u),2):o$=MID$(STR$(VAL(o$)),2):s=PEEK(1
609)*256+PEEK(1608)
1170 FOR k=1 TO LEN(o$):POKE 768+k-1,ASC(MID$(o$,k,1)):s=s+1:NEXT:POKE
768+k-1,0:i$=HEX$(s):POKE 1609,VAL(LEFT$(i$,2)):POKE 1608,VAL(RIGHT$(i$,2))
1180 GOSUB 90
1182 IF n=255 THEN 1240
1184 IF n=254 THEN q=0:x=0:y=0:l=0:GOTO 1225
1186 IF n=7 THEN y=y+1:IF y>=2 THEN y=0:l=1:GOTO 1225
1188 IF y=1 THEN 1225
1190 IF n=167 THEN x=1:GOTO 1225
1192 IF n*x*l=93 THEN n=94:GOTO 1223
1194 IF n=165 OR n=151 THEN q=SGN(n-151):GOTO 1223
1196 IF n*q=94 THEN n=151:q=0
1223 l=0
1225 IF PEEK(1608)>=247 THEN 5000
1230 h$=CHR$(n):MODE 32(h$):GOTO 1180
1240 GOSUB 2080:MODE 31(m$):GOTO 1160
2030 IF PEEK(m+a)=44 AND PEEK(m+a+1)=77 THEN g=1:RETURN
2040 e=o
2050 GOSUB 90:IF n=224 THEN w=w+1:GOTO 2050
2060 IF n=240 THEN END ELSE RETURN
2080 m$=CHR$(w)
2090 r=e-f:t=o-r+1:MODE 33(f+1,t,r):f=t-1:IF (FRE(1))-r<0 THEN 20
2100 RETURN
2120 n=PEEK(m+a):IF n=44 AND f$="MF" THEN RETURN
2130 IF n=0 THEN RETURN
2140 IF n=32 THEN a=a+1:GOTO 2120
2150 IF n<>34 THEN a ELSE a=a+1
2160 n=PEEK(m+a):IF n=34 THEN a=a+1:c$=LEFT$(c$,8):RETURN
2170 IF n=0 THEN c$=LEFT$(c$,8):RETURN ELSE c$=c$+CHR$(n):a=a+1:GOTO 2160
2190 n=PEEK(m+a):IF n=48 OR n=49 THEN p$="PMT"+CHR$(n)+":":a=a+1:RETURN
2195 IF n=32 THEN a=a+1:GOTO 2190
2200 p$="PMT0:":RETURN
2220 n=PEEK(m+a):IF n=0 THEN RETURN
2230 IF n=32 THEN a=a+1:GOTO 2220 ELSE a
2250 n=PEEK(m+a):a=a+1:IF n=32 THEN 2250 ELSE RETURN
5000 j$=j$+"ST error":GOTO 5000
6010 IF g=1 THEN 6040
6020 RESTORE#
6030 RESTORE# "",1,6060:WRITE#:GOTO 6030
6040 RESTORE# CHR$(26),0,6060:READ $
6060 GOSUB 70:e=o
6070 GOSUB 90:IF n=240 THEN END
6075 IF PEEK(1608)>=247 THEN 5000
6080 IF n<>255 THEN h$=CHR$(n):MODE 32(h$):GOTO 6070

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6090 GOSUB 2090:k=768:s=256*PEEK(1609)+PEEK(1608):l$=""
6100 IF k=s THEN WRITE# l$:GOTO 6060 ELSE l$=l$+CHR$(PEEK(k)):k=k+1:GOTO 6100
10010 e=o:j=0:a=0:IF i\16>0 THEN 10100
10020 IF a=0 THEN PRINT "GET ";(e-f-1)/8;"data";:PRINT:PRINT "Converting...";
10030 IF e<f+5 THEN END
10040 GOSUB 70:n=PEEK(e-7):IF n>10 THEN 10070
10050 FOR k=0 TO 7:GOSUB 90:POKE 768+k,n:NEXT:MODE
34("A("+STR$(j)+")"+CHR$(0)):j=j+1:GOTO 10030
10070 a=n\16
10080 FOR k=0 TO 7:GOSUB 90:a=a-1:IF a>=0 THEN MODE 32(CHR$(n))
10085 NEXT
10090 MODE 34("A$("+STR$(j)+")"+CHR$(0)):j=j+1:GOTO 10030
10100 GOSUB 90:b=n:a=30:IF (i\16)=14 THEN a=62
10110 PRINT "GET $,";(e-f-a-2)/8;"data";:PRINT:PRINT "Converting...";:GOSUB 70
10120 FOR k=0 TO a:GOSUB 90:b=b-1:IF b>=0 THEN MODE 32(CHR$(n))
10130 NEXT:MODE 34("$"+CHR$(0)):GOTO 10030

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Programa 1000

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5 ON ERROR GOTO 500
10 MODE 8:DIM:ERASE a,a$:DIM a(3),a$(1):DEFSEG=0
100 CLS:PRINT " MC[ã] MR[å] M-[ä] M+[æ]";
110 LOCATE 0,1:PRINT CHR$(5);a(2);:LOCATE 16,1:PRINT a(3);:LOCATE 0,0:LOCATE
0,1
120 a$(0)=INPUT$(1,@):a(0)=ASC(a$(0)):IF a(0)=46 OR (a(0)>47 AND a(0)<58) THEN
200
130 IF a(0)=42 OR a(0)=43 OR a(0)=45 OR a(0)=47 OR a(0)=94 THEN
a$(0)=STR$(a(2))+a$(0):GOTO 200
140 IF a(0)<14 OR a(0)>127 THEN 110
150 IF a(0)=40 OR a(0)=41 THEN 200
160 IF a(0)>27 AND a(0)<32 THEN 300
200 LOCATE 0,0:LOCATE 0,1:PRINT CHR$(5);a$(0);
210 a(0)=ASC(INPUT$(1)):a(1)=PEEK(206):IF a(0)>32 AND a(0)<127 AND a(1)=0 THEN
PRINT CHR$(a(0));:GOTO 210
220 IF a(0)=8 THEN PRINT CHR$(8);:GOTO 210
230 IF a(0)=31 AND a(1)=0 THEN GOSUB 350:PRINT a$(1);:GOTO 210
240 IF a(0)=13 OR a(0)=28 OR a(0)=29 THEN 400
250 IF a(0)=30 THEN a(3)=0:GOTO 210
260 IF a(0)=12 THEN a$(0)="" :GOTO 200
270 IF a(0)=9 OR a(0)=14 OR a(0)=15 THEN PRINT CHR$(a(0));
280 GOTO 210
300 IF a(0)=28 THEN a(3)=a(3)+a(2):GOTO 110
310 IF a(0)=29 THEN a(3)=a(3)-a(2):GOTO 110
320 IF a(0)=30 THEN a(3)=0:GOTO 110
330 IF a(0)=31 THEN GOSUB 350:a$(0)=a$(1):GOTO 200
350 a$(1)=STR$(a(3)):IF a(3)>=0 THEN a$(1)=MID$(a$(1),2)
360 RETURN
400 MODE 33(32,1024,223):IF CALC$="" THEN 110
405 a(2)=VALF(CALC$):IF a(0)=13 THEN 110
410 IF a(0)=28 THEN a(3)=a(3)+a(2):GOTO 110
420 IF a(0)=29 THEN a(3)=a(3)-a(2):GOTO 110

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500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 LOCATE 0,0:LOCATE 0,1:PRINT CHR$(5);" Error";:w$=INPUT$(1,@)
520 IF ERL=300 OR ERL=310 THEN RESUME 110
530 LOCATE 0,1:PRINT CHR$(5);CALC$;:RESUME 210

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Programa 5010

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5 ON ERROR GOTO 1000
10 MODE 8:DIM:x=2:c$=CHR$(5)
20 CLS:PRINT "Prime factors (2áBase<10´)";:a$=" *"
40 LOCATE 0,1:PRINT c$;"Base ?";:INPUT @11;x:LOCATE 0,0
45 IF x<2 OR x>=1e10 OR FRAC x<>0 THEN 40
50 LOCATE 0,1:PRINT c$;x;"= .....";
60 u=0:v=0:n=1:t$="":a=x
70 GOTO 130
100 u=2:GOSUB 500
110 a=a/2
120 IF a-1=0 THEN 240
130 IF FRAC(a/2)=0 THEN 100
140 b=3
150 c=SQR a+1
160 IF b>=c THEN 230
170 IF FRAC(a/b)=0 THEN 190
180 b=b+2:GOTO 160
190 IF a/b*b-a=0 THEN 210
200 GOTO 180
210 u=b:GOSUB 500
220 a=a/b:GOTO 150
230 u=a:GOSUB 500
240 a$="":GOSUB 530
250 PRINT c$;x;"=";t$;:z$=INPUT$(1,@):GOTO 20
500 IF v=u THEN n=n+1:GOTO 550
520 IF v=0 THEN 550
530 IF n>1 THEN t$=t$+STR$(v)+"^"+MID$(STR$(n),2)+a$ ELSE t$=t$+STR$(v)+a$
540 n=1
550 v=u:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=40 THEN RESUME 40
1050 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

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Programa 5020

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5 ON ERROR GOTO 1000
10 MODE 8:DIM:c$=CHR$(5):a=1:b=1
20 CLS:PRINT "G.C.M. & L.C.M. (1áa,b<10´)";
30 s$="a":z=a:GOSUB 700:a=z
40 s$="b":z=b:GOSUB 700:b=z:CLS
100 IF b>a THEN f=b:g=a ELSE f=a:g=b
110 h=f-INT(f/g)*g:IF h THEN f=g:g=h:GOTO 110
200 l=a/g*b:PRINT "G.C.M.=";g;TAB(0);"L.C.M.=";l;:z$=INPUT$(1,@):GOTO 20

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700 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @11;z:LOCATE 0,0:z=ABS z
730 IF z>=1e10 OR z<1 OR FRAC z<>0 THEN 700 ELSE RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=700 THEN RESUME 700
1050 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

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Programa 5040

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5 ON ERROR GOTO 2000:DEFSEG=0
10 MODE 8:DIM:ERASE a:c$=CHR$(5):n=2:m$="ax1+bx2+cx3+dx4+ex5+fx6+gx7"
30 CLS:PRINT "ax1+bx2+cx3+¥¥¥=y (2áná7)";
40 LOCATE 0,1:PRINT c$;"n=";n;"?";:INPUT @2;n:LOCATE 0,0:IF n<2 OR n>7 THEN 40
60 m=n-1:DIM a(m,n):p$=LEFT$(m$,4*m+3)+"=y":CLS:PRINT p$;
100 FOR i=0 TO m:FOR j=0 TO n
110 s$=MID$(STR$(i+1),2)+"":MID$(p$,j*4+1,1):z=a(i,j)
120 GOSUB 1950:IF w=0 THEN a(i,j)=z:GOTO 140
130 IF j=0 THEN IF i=0 THEN 30 ELSE i=i-1:j=n-1 ELSE j=j-2
140 NEXT:NEXT
160 LOCATE 0,1:PRINT c$;"x1 = .....":GOTO 830
310 FOR i=0 TO m:z=b(i):IF z<>0 AND ABS z>=1e-90 THEN z=ROUND(z,LOG(ABS z)-7)
315 IF z<>0 AND ABS z<1e-90 THEN z=z*1e10:z=ROUND(z,LOG(ABS z)-7):z=z/1e10
320 PRINT c$;"x";MID$(STR$(i+1),2);"=";z;
330 w=ASC(INPUT$(1,@)):IF w=29 OR w=28 THEN 30
360 IF w<>13 AND w<>31 AND w<>30 THEN 330
370 IF (w=31 AND i=m) OR (w=30 AND i=0) THEN 330
390 IF w=30 THEN i=i-2
400 NEXT:GOTO 30
830 ERASE b,c,e:y=2*n-1:x=m:DIM c(x,y),e(x),b(x)
840 FOR i=0 TO m:FOR j=0 TO m:c(i,j)=a(i,j):NEXT:NEXT
850 FOR i=0 TO m:FOR j=n TO y:IF i=j-n THEN c(i,j)=1
860 NEXT:NEXT
870 FOR i=0 TO x:e(i)=i:NEXT
880 FOR k=0 TO x:w=ABS(c(k,k)):a=k:b=k
890 FOR i=k TO x:FOR j=k TO x:IF w<ABS(c(i,j)) THEN w=ABS(c(i,j)):a=i:b=j
900 NEXT:NEXT
920 IF w<1E-10 THEN GOSUB 1800:GOTO 30
940 IF k<>a THEN FOR j=k TO y:w=c(k,j):c(k,j)=c(a,j):c(a,j)=w:NEXT
950 IF k<>b THEN FOR i=0 TO
x:w=c(i,k):c(i,k)=c(i,b):c(i,b)=w:NEXT:w=e(k):e(k)=e(b):e(b)=w
960 w=c(k,k):c=k+1:FOR j=c TO y:c(k,j)=c(k,j)/w:NEXT
970 FOR i=0 TO x:IF i<>k THEN w=c(i,k):FOR j=c TO y:c(i,j)=c(i,j)-w*c(k,j):NEXT
980 NEXT:NEXT
1040 FOR j=n TO y:FOR i=0 TO x:w=e(i):c(w,x)=c(i,j):NEXT
1050 FOR i=0 TO x:c(i,j)=c(i,x):NEXT:NEXT
1270 FOR i=0 TO m:w=0:FOR k=0 TO m:w=w+c(i,k+n)*a(k,n):NEXT:b(i)=w:NEXT:GOTO
310
1800 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RETURN
1950 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @43;z:LOCATE
0,0:w=PEEK(&H65B)-13:RETURN
2000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
2020 IF ERL=40 THEN RESUME 40

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2030 IF ERL=1950 THEN RESUME 1950
2040 IF ERL=60 THEN ERASE a:RESUME 60
2080 GOSUB 1800:RESUME 30
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Programa 5050

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5 ON ERROR GOTO 1000
10 MODE 8:DIM:c$=CHR$(5):a=1:b=0:c=0
20 CLS:PRINT "ax'+bx+c=0";
30 s$="a":z=a:GOSUB 700:a=z:IF z=0 THEN 30
40 s$="b":z=b:GOSUB 700:b=z
50 s$="c":z=c:GOSUB 700:c=z
60 LOCATE 0,1:PRINT c$;".....";
100 d=b*b-4*a*c
110 CLS:IF d THEN 130
120 PRINT "a(x-^)'=0";:PRINT:GOTO 200
130 PRINT "a(x-^)(x-%)=0";:PRINT
140 ON SGN d+2 GOTO 400,,300
200 x=-b/(2*a):GOSUB 510:PRINT c$;"^=";x;
210 GOSUB 550:IF w=13 THEN 20 ELSE 210
300 IF b<0 THEN z=-b+SQR d ELSE z=-b-SQR d
305 x=z/2/a:y=2*c/z:GOSUB 500
310 PRINT c$;"^=";x;
330 GOSUB 550:IF w<>13 AND w<>31 THEN 330
340 PRINT c$;"%=";y;
360 GOSUB 550:IF w=30 THEN 310 ELSE IF w=13 THEN 20 ELSE 360
400 x=-b/(2*a):y=SQR(-d)/(2*a):GOSUB 500:x$=STR$(x)+" ":y$=MID$(STR$(y),2):IF
x=0 THEN x$=""
410 PRINT c$;"^=";x$;:IF x THEN PRINT "+";
420 IF y-1 THEN PRINT " ";y$;"i"; ELSE PRINT " i";
430 GOSUB 550:IF w<>13 AND w<>31 THEN 430
440 PRINT c$;"%=";x$;"-";:IF x THEN PRINT " ";
450 IF y-1 THEN PRINT y$;"i"; ELSE PRINT "i";
460 GOSUB 550:IF w=30 THEN 410 ELSE IF w=13 THEN 20 ELSE 460
500 IF y<>0 AND ABS y>=1e-90 THEN y=ROUND(y,LOG(ABS y)-7)
505 IF y<>0 AND ABS y<1e-90 THEN y=y*1e10:y=ROUND(y,LOG(ABS y)-7):y=y/1e10
510 IF x<>0 AND ABS x>=1e-90 THEN x=ROUND(x,LOG(ABS x)-7)
515 IF x<>0 AND ABS x<1e-90 THEN x=x*1e10:x=ROUND(x,LOG(ABS x)-7):x=x/1e10
520 RETURN
550 LOCATE 0,0:LOCATE 0,1:w=ASC(INPUT$(1,@)):RETURN
700 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=700 THEN RESUME 700
1050 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20
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Programa 5060

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5 ON ERROR GOTO 1000
10 MODE 8:DIM:c$=CHR$(5):ANGLE 0:a=1:b=0:c=0:d=0
20 CLS:PRINT "ax''+bx'+cx+d=0";
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30 s$="a":z=a:GOSUB 700:a=z:IF a=0 THEN 30
40 s$="b":z=b:GOSUB 700:b=z
50 s$="c":z=c:GOSUB 700:c=z
60 s$="d":z=d:GOSUB 700:d=z
70 LOCATE 0,1:PRINT c$;".....";
100 u=b/a/3:p=c/a/3-u*u:q=2*u*u*u-u*c/a+d/a
102 IF ABS p<u*u*1e-10 THEN p=0
104 IF ABS q<u*u*u*1e-10 THEN q=0
110 t=q*q+4*p*p*p:IF ABS t<q*q*5e-10 THEN t=0
115 r=(q+SQR(ABS t))/2:s=(q-SQR(ABS t))/2:r=SGN r*CUR(ABS r):s=SGN s*CUR(ABS s)
120 v=r+s
130 ON SGN t+2 GOTO 400,,300
140 x=-v-u:IF p THEN 200
175 GOSUB 520:PRINT "a(x-^)"="0";:PRINT
180 PRINT c$;"^=";x;
190 GOSUB 550:IF w=13 THEN 20 ELSE 190
200 y=v/2-u
205 GOSUB 510:PRINT "a(x-^)(x-%)'=0";:PRINT
210 PRINT c$;"^=";x;
230 GOSUB 550:IF w<>13 AND w<>31 THEN 230
240 PRINT c$;"%=";y;
260 GOSUB 550:IF w=30 THEN 210 ELSE IF w=13 THEN 20 ELSE 260
300 x=-v-u:y=v/2-u:z=ABS(SQR 3/2*(r-s))
302 GOSUB 500:PRINT "a(x-^)(x-%)(x-Š)=0";:PRINT
305 y$=STR$(y)+" ":z$=MID$(STR$(z),2):IF y=0 THEN y$=""
310 PRINT c$;"^=";x;
330 GOSUB 550:IF w<>13 AND w<>31 THEN 330
340 PRINT c$;"%=";y$;:IF y THEN PRINT "+";
350 IF z-1 THEN PRINT " ";z$;"i"; ELSE PRINT " i";
360 GOSUB 550:IF w=30 THEN 310 ELSE IF w<>13 AND w<>31 THEN 360
370 PRINT c$;"Š=";y$;"-";:IF y THEN PRINT " ";
380 IF z-1 THEN PRINT z$;"i"; ELSE PRINT "i";
390 GOSUB 550:IF w=30 THEN 340 ELSE IF w=13 THEN 20 ELSE 390
400 h=ACS(q/2/SQR(ABS(-p*p*p)))/3:i=-2*SQR(ABS(-p)):x=i*COS
h-u:y=i*COS(h+120)-u:z=i*COS(h+240)-u
405 GOSUB 500:PRINT "a(x-^)(x-%)(x-Š)=0";:PRINT
410 PRINT c$;"^=";x;
430 GOSUB 550:IF w<>13 AND w<>31 THEN 430
440 PRINT c$;"%=";y;
460 GOSUB 550:IF w=30 THEN 410 ELSE IF w<>13 AND w<>31 THEN 460
470 PRINT c$;"Š=";z;
490 GOSUB 550:IF w=30 THEN 440 ELSE IF w=13 THEN 20 ELSE 490
500 IF z<>0 AND ABS z>=1e-90 THEN z=ROUND(z,LOG(ABS z)-7)
502 IF z<>0 AND ABS z<1e-90 THEN z=z*1e10:z=ROUND(z,LOG(ABS z)-7):z=z/1e10
505 IF ABS z<ABS u*1e-10 THEN z=0
510 IF y<>0 AND ABS y>=1e-90 THEN y=ROUND(y,LOG(ABS y)-7)
512 IF y<>0 AND ABS y<1e-90 THEN y=y*1e10:y=ROUND(y,LOG(ABS y)-7):y=y/1e10
515 IF ABS y<ABS u*1e-10 THEN y=0
520 IF x<>0 AND ABS x>=1e-90 THEN x=ROUND(x,LOG(ABS x)-7)
522 IF x<>0 AND ABS x<1e-90 THEN x=x*1e10:x=ROUND(x,LOG(ABS x)-7):x=x/1e10
525 IF ABS x<ABS u*1e-10 THEN x=0
530 CLS:RETURN

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550 LOCATE 0,0:LOCATE 0,1:w=ASC(INPUT$(1,@)):RETURN
700 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=700 THEN RESUME 700
1050 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

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Programa 5080

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5 ON ERROR GOTO 1000
10 DEF CHR$(255)="0000FE0000":MODE 8:DIM:PRINT CHR$(15);
30 f$="":c$=CHR$(5):s=0:h=1e-5:e=1e-7:m=20:ANGLE 1
50 CLS:PRINT "Newton's method f(x)=0";TAB(0);"1:f(x),x0      2:h,<,loop";
60 k=ASC(INPUT$(1,@)):IF k=13 OR k=49 THEN 90 ELSE IF k=50 THEN 150
80 GOTO 60
90 CLS:PRINT "Define function";
100 LOCATE 0,1:PRINT c$;"f(x) ?";f$;:LOCATE 0,0:LOCATE 6,1:INPUT @100;f$:LOCATE
0,0:z=VALF(f$)
110 IF LEN(f$)<25 THEN g$=f$ ELSE g$=LEFT$(f$,21)+"¥¥¥"
120 m$="f(x) = "+g$:s$="x0":z=s:GOSUB 800:s=z:GOTO 250
150 m$="ff(x)=(f(x+h)-f(x))/h (h>0)":s$="h":z=h:GOSUB 800:h=z:IF h=<0 THEN 150
170 m$="Err ỹXn+1-Xnÿ<< (<>0)":s$="<":z=e:GOSUB 800:e=z:IF e<1e-90 THEN 170
200 m$="Max loop (n>0)":s$="n":z=m:GOSUB 800:m=z:IF m=<0 OR FRAC m<>0 THEN 200
ELSE 50
250 CLS:PRINT m$;TAB(0);"x = .....";:t=s
310 FOR i=1 TO m
320 x=t:g=VALF(f$):x=t+h:f=VALF(f$):x=t-g*h/(f-g)
350 IF ABS(t-x)=<e THEN 500
360 t=x:NEXT:GOSUB 450
390 PRINT c$;"loop =" ;m;TAB(11);"Xn =" ;STR$(x);:LOCATE 0,0:LOCATE
1,1:z$=INPUT$(1,@):GOTO 50
450 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RETURN
500 x=ROUND(x,INT LOG(ABS e)-1):PRINT c$;"x =" ;x;:z$=INPUT$(1,@):GOTO 50
800 CLS:PRINT m$;
810 LOCATE 0,1:PRINT c$;s$="";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=100 THEN IF ERR=2 THEN RESUME 100 ELSE RESUME NEXT
1015 IF ERL=810 THEN RESUME 810
1020 GOSUB 450:RESUME 50

```

Programa 5090

```

5 ON ERROR GOTO 1000
10 DEF CHR$(255)="0000FE0000":MODE 8:DIM:PRINT CHR$(15);
30 f$="":c$=CHR$(5):s=0:t=0:e=1e-7:m=30:ANGLE 1
50 CLS:PRINT "Method of bisection f(x)=0      1:f(x),x0,x1      2:<,loop";
60 k=ASC(INPUT$(1,@)):IF k=13 OR k=49 THEN 90 ELSE IF k=50 THEN 170
80 GOTO 60
90 CLS:PRINT "Define function";
100 LOCATE 0,1:PRINT c$;"f(x) ?";f$;:LOCATE 0,0:LOCATE 6,1:INPUT @100;f$:LOCATE
0,0:z=VALF(f$)

```

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110 IF LEN(f$)<25 THEN g$=f$ ELSE g$=LEFT$(f$,21)+"¥¥¥"
120 m$="f(x) = "+g$:s$="x0":z=s:GOSUB 800:s=z
130 s$="x1":z=t:GOSUB 800:t=z:GOTO 250
170 m$="Err ỳXn+1-Xnỳ<< (<>0)":s$="<":z=e:GOSUB 800:e=z:IF e<1e-90 THEN 170
200 m$="Max loop (n>0)":s$="n":z=m:GOSUB 800:m=z:IF m=<0 OR FRAC m<>0 THEN 200
ELSE 50
250 CLS:PRINT m$;TAB(0);"x = .....":;u=s:v=t
270 x=u:g=VALF(f$):IF g=0 THEN 500
280 x=v:h=VALF(f$):IF h=0 THEN 500
310 FOR i=1 TO m:x=(u+v)/2:f=VALF(f$):IF f=0 THEN 500
330 IF SGN g=SGN h AND SGN h=SGN f THEN GOSUB 450:GOTO 50
340 IF SGN(f*g)=1 THEN u=x:g=f ELSE v=x:h=f
350 IF ABS(u-v)=<e THEN 500
370 NEXT:GOSUB 450
390 PRINT c$;"loop =";m;TAB(11);"Xn =";STR$(x);:LOCATE 0,0:LOCATE
1,1:z$=INPUT$(1,@):GOTO 50
450 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RETURN
500 x=ROUND(x,INT LOG(ABS e)-1):PRINT c$;"x =";x;:z$=INPUT$(1,@):GOTO 50
800 CLS:PRINT m$;
810 LOCATE 0,1:PRINT c$;s$="";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=100 THEN IF ERR=2 THEN RESUME 100 ELSE RESUME NEXT
1015 IF ERL=810 THEN RESUME 810
1020 GOSUB 450:RESUME 50

```

Programa 5100

```

5 ON ERROR GOTO 2000:DEFSEG=0
10 CLS:MODE 8:DIM:ERASE a,b,d:DIM
a(1,1),b(1,1),d(1,1):m=1:n=1:o=1:p=1:q=1:r=1:c$=CHR$(5):e=1
40 GOSUB 460:GOSUB 470:GOSUB 420
50 LOCATE 0,0:PRINT c$;"Matrix A";m$;"B";n$;
60 LOCATE 28,1:z=ASC(INPUT$(1)):IF z>96 THEN z=z-32
100 ON z-41 GOTO
1250,1300,,1350,1500,,,,,,,,,,,,,,,,,,,,,120,130,700,800,,,,,800,,1400,1100,1150,
,,300,,,,1200
110 GOTO 60
120 x=m:GOTO 500
130 x=o:GOTO 600
300 LOCATE 0,0:FOR i=0 TO m:FOR j=0 TO n:z=a(i,j):IF z<>0 AND ABS z>=1e-90 THEN
z=ROUND(z,LOG(ABS z)-7)
310 IF z<>0 AND ABS z<1e-90 THEN z=z*1e10:z=ROUND(z,LOG(ABS z)-7):z=z/1e10
320 PRINT c$;"a(";MID$(STR$(i+1),2);",";MID$(STR$(j+1),2);") =";z;
330 z=ASC(INPUT$(1,@)):IF z=28 OR z=29 THEN 50
340 IF z>96 THEN z=z-32
350 ON z-41 GOTO
1250,1300,,1350,1500,,,,,,,,,,,,,,,,,,,,,120,130,700,800,,,,,800,,1400,1100,1150,
,,300,,,,1200
360 IF z<>13 AND z<>31 AND z<>30 THEN 330
370 IF (z=31 AND i+j=n+m) OR (z=30 AND i+j=0) THEN 330
390 IF z=30 THEN IF j=0 THEN i=i-1:j=n-1 ELSE j=j-2

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400 NEXT:NEXT:GOTO 50
420 CLS:PRINT:PRINT ">A,B,D,I,T,K,+,-,*,M,L,C,P ?";:RETURN
440 FOR i=0 TO m:FOR j=0 TO n:a(i,j)=c(i,j):NEXT:NEXT:RETURN
460 n$="("+MID$(STR$(o+1),2)+","+MID$(STR$(p+1),2)+)":RETURN
470 m$="("+MID$(STR$(m+1),2)+","+MID$(STR$(n+1),2)+)":RETURN
480 m$="("+MID$(STR$(i+1),2)+","+MID$(STR$(j+1),2)+)":RETURN
500 i=x:j=n:GOSUB 480:p$="A(m,n) = A"+m$:s$="m":z=x+1:GOSUB 1900:IF w THEN 40
ELSE x=z-1
510 i=x:j=n:GOSUB 480:p$="A(m,n) = A"+m$:s$="n":z=n+1:GOSUB 1900:IF w THEN 500
520 m=x:n=z-1
530 DIM a(m,n)
540 FOR i=0 TO m:FOR j=0 TO n
550 p$="a("+MID$(STR$(i+1),2)+","+MID$(STR$(j+1),2)+)"
560 z=a(i,j):GOSUB 1850:IF w=13 THEN a(i,j)=z:GOTO 580
570 IF j=0 THEN IF i=0 THEN 510 ELSE i=i-1:j=n-1 ELSE j=j-2
580 NEXT:NEXT:GOTO 40
600 i=x:j=p:GOSUB 480:p$="B(m,n) = B"+m$:s$="m":z=x+1:GOSUB 1900:IF w THEN 40
ELSE x=z-1
610 i=x:j=p:GOSUB 480:p$="B(m,n) = B"+m$:s$="n":z=p+1:GOSUB 1900:IF w THEN 600
620 o=x:p=z-1
630 DIM b(o,p)
640 FOR i=0 TO o:FOR j=0 TO p
650 p$="b("+MID$(STR$(i+1),2)+","+MID$(STR$(j+1),2)+)"
660 z=b(i,j):GOSUB 1850:IF w=13 THEN b(i,j)=z:GOTO 680
670 IF j=0 THEN IF i=0 THEN 610 ELSE i=i-1:j=n-1 ELSE j=j-2
680 NEXT:NEXT:GOTO 40
700 LOCATE 0,0:PRINT c$;"Change A";m$;" äæ B";n$;:IF m=o AND n=p THEN 750
710 ERASE c:DIM c(m,n):FOR i=0 TO m:FOR j=0 TO n:c(i,j)=a(i,j):NEXT:NEXT
720 ERASE a:DIM a(o,p):FOR i=0 TO o:FOR j=0 TO p:a(i,j)=b(i,j):NEXT:NEXT
730 ERASE b:DIM b(m,n):FOR i=0 TO m:FOR j=0 TO n:b(i,j)=c(i,j):NEXT:NEXT
740 x=m:y=n:m=o:n=p:o=x:p=y:z$=m$:m$=n$:n$=z$:GOTO 50
750 FOR i=0 TO m:FOR j=0 TO n:w=a(i,j):a(i,j)=b(i,j):b(i,j)=w:NEXT:NEXT:GOTO 50
800 LOCATE 0,0:IF m<>n THEN GOSUB 1830:GOTO 50
810 IF z=68 THEN PRINT c$;"Determinant A = ....."; ELSE PRINT c$;"Inverse A æ
A";
820 t=1E-10:d=1
830 ERASE c,e:y=2*(m+1)-1:x=m:DIM c(x,y),e(x)
840 FOR i=0 TO m:FOR j=0 TO n:c(i,j)=a(i,j):NEXT:NEXT
850 FOR i=0 TO m:FOR j=n+1 TO y:IF i=j-n-1 THEN c(i,j)=1
860 NEXT:NEXT
870 FOR i=0 TO x:e(i)=i:NEXT
880 FOR k=0 TO x:w=ABS(c(k,k)):a=k:b=k
890 FOR i=k TO x:FOR j=k TO x:IF w<ABS(c(i,j)) THEN w=ABS(c(i,j)):a=i:b=j
900 NEXT:NEXT
920 IF w<t THEN IF z=68 THEN d=0:GOTO 1000 ELSE GOSUB 1830:GOTO 50
940 IF k<>a THEN d=-d:FOR j=k TO y:w=c(k,j):c(k,j)=c(a,j):c(a,j)=w:NEXT
950 IF k<>b THEN d=-d:FOR i=0 TO
x:w=c(i,k):c(i,k)=c(i,b):c(i,b)=w:NEXT:w=e(k):e(k)=e(b):e(b)=w
960 w=c(k,k):d=d*w:c=k+1:FOR j=c TO y:c(k,j)=c(k,j)/w:NEXT
970 FOR i=0 TO x:IF i<>k THEN w=c(i,k):FOR j=c TO y:c(i,j)=c(i,j)-w*c(k,j):NEXT
980 NEXT:NEXT
1000 IF z=68 THEN PRINT c$;"Determinant A =";STR$(d);:z$=INPUT$(1,@):GOTO 50

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1040 w=x+1:FOR j=w TO y:FOR i=0 TO x:w=e(i):c(w,x)=c(i,j):NEXT
1050 FOR i=0 TO x:c(i,j)=c(i,x):NEXT:NEXT
1070 FOR i=0 TO x:FOR j=0 TO x:a(i,j)=c(i,j+x+1):NEXT:NEXT:GOTO 300
1100 m=q:n=r:GOSUB 470:LOCATE 0,0:PRINT c$;"Load A ä M";m$;
1110 ERASE a:DIM a(m,n):FOR i=0 TO m:FOR j=0 TO n:a(i,j)=d(i,j):NEXT:NEXT:GOTO
50
1150 q=m:r=n:GOSUB 470:LOCATE 0,0:PRINT c$;"Memory A æ M";m$;
1160 ERASE d:DIM d(q,r):FOR i=0 TO m:FOR j=0 TO n:d(i,j)=a(i,j):NEXT:NEXT:GOTO
50
1200 w=m:m=n:n=w:GOSUB 470:LOCATE 0,0:PRINT c$;"Transpose A æ A";m$;
1210 ERASE c:DIM c(m,n):FOR i=0 TO n:FOR j=0 TO m:c(j,i)=a(i,j):NEXT:NEXT
1220 ERASE a:DIM a(m,n):GOSUB 440:GOTO 300
1250 LOCATE 0,0:IF n<>o THEN GOSUB 1830:GOTO 50
1260 i=m:j=p:GOSUB 480:PRINT c$;"A*B æ A";m$;
1270 ERASE c:DIM c(m,p):FOR i=0 TO m:FOR j=0 TO p:w=0:FOR k=0 TO
n:w=w+a(i,k)*b(k,j):NEXT:c(i,j)=w:NEXT:NEXT:IF m<>o OR n<>p THEN n=p:ERASE
a:DIM a(m,n)
1280 GOSUB 440:GOTO 300
1300 LOCATE 0,0:IF m<>o OR n<>p THEN GOSUB 1830:GOTO 50
1310 PRINT c$;"A+B æ A";m$;
1320 ERASE c:DIM c(m,n):FOR i=0 TO m:FOR j=0 TO
n:c(i,j)=a(i,j)+b(i,j):NEXT:NEXT:GOSUB 440:GOTO 300
1350 LOCATE 0,0:IF m<>o OR n<>p THEN GOSUB 1830:GOTO 50
1360 PRINT c$;"A-B æ A";m$;
1370 ERASE c:DIM c(m,n):FOR i=0 TO m:FOR j=0 TO
n:c(i,j)=a(i,j)-b(i,j):NEXT:NEXT:GOSUB 440:GOTO 300
1400 p$="k*A"+m$+" æ A":z=e:GOSUB 1950:GOSUB 420:IF w THEN 50 ELSE e=z
1410 LOCATE 0,0:PRINT p$;
1420 ERASE c:DIM c(m,n):FOR i=0 TO m:FOR j=0 TO
n:c(i,j)=e*a(i,j):NEXT:NEXT:GOSUB 440:GOTO 300
1500 DEF CHR$(254)="0080F08000":CLS:GOSUB 1600:i=2
1510 PRINT:ON i GOSUB
1600,1610,1620,1630,1640,1650,1660,1670,1680,1690,1700,1710,1720
1520 z=ASC(INPUT$(1,@)):IF z=28 OR z=29 THEN 1580
1530 IF z<>13 AND z<>31 AND z<>30 THEN 1520
1540 IF (z=31 AND i=13) OR (z=30 AND i=1) THEN 1520
1550 IF z=30 THEN i=i-2
1570 i=i+1:IF i<14 THEN 1510
1580 GOSUB 420:GOTO 50
1600 PRINT " A : input A(m,n)";:RETURN
1610 PRINT " B : input B(m,n)";:RETURN
1620 PRINT " D : determinant A";:RETURN
1630 PRINT " I : inverse      Až æ A";:RETURN
1640 PRINT " T : transposition  Aþ æ A";:RETURN
1650 PRINT " K : scalar-cal     k*A æ A";:RETURN
1660 PRINT " + : addition      A+B æ A";:RETURN
1670 PRINT " - : subtraction   A-B æ A";:RETURN
1680 PRINT " * : multiplication A*B æ A";:RETURN
1690 PRINT " M : memory        A æ M";:RETURN
1700 PRINT " L : load          A ä M";:RETURN
1710 PRINT " C : change        A äæ B";:RETURN
1720 PRINT " P : print A(m,n)";:RETURN

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1830 LOCATE 0,0:PRINT c$;"not found";:z$=INPUT$(1,@):RETURN
1850 CLS:PRINT p$;"=";z;
1860 LOCATE 0,1:PRINT c$;"?";:INPUT @16;z:LOCATE 0,0:w=PEEK(&H65B):RETURN
1900 CLS:PRINT p$;
1910 LOCATE 0,1:PRINT c$;s$;"?";:INPUT @3;z:LOCATE 0,0:w=PEEK(&H65B)-13:IF w
THEN RETURN
1920 IF z<1 OR z>10 OR FRAC(z)<>0 THEN 1910 ELSE RETURN
1950 CLS:PRINT p$;
1960 LOCATE 0,1:PRINT c$;"k=";z;"?";:INPUT @12;z:LOCATE
0,0:w=PEEK(&H65B)-13:RETURN
2000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
2010 IF ERL=1860 THEN RESUME 1860
2020 IF ERL=1910 THEN RESUME 1910
2030 IF ERL=1960 THEN RESUME 1960
2040 IF ERL=530 THEN ERASE a:RESUME 530
2050 IF ERL=630 THEN ERASE b:RESUME 630
2080 GOSUB 1830:RESUME 40

```

Programa 5200

```

5 ON ERROR GOTO 1000
10 DEF CHR$(255)="0000FE000":MODE 8:DIM:PRINT CHR$(15);
30 f$="":c$=CHR$(5):a=0:b=0:e=1e-7:m=8:ANGLE 1:ERASE a:DIM a(m)
50 CLS:PRINT "Romberg's method f(x)dx [a,b] 1:f(x),[a,b] 2:<,loop";
60 k=ASC(INPUT$(1,@)):IF k=13 OR k=49 THEN 90 ELSE IF k=50 THEN 170
80 GOTO 60
90 CLS:PRINT "Define function";
100 LOCATE 0,1:PRINT c$;"f(x) ?";f$;:LOCATE 0,0:LOCATE 6,1:INPUT @100;f$:LOCATE
0,0:z=VALF(f$)
110 IF LEN(f$)<21 THEN g$=f$ ELSE g$=LEFT$(f$,17)+"¥¥¥"
120 m$=" "+g$+" dx [a,b]":s$="a":z=a:GOSUB 800:a=z
130 s$="b":z=b:GOSUB 800:b=z:GOTO 250
170 m$="Err yAn+1-Any<< (<>0)":s$="<":z=e:GOSUB 800:e=z:IF e<1e-90 THEN 170
200 m$="Max loop 2æ (n>0)":s$="n":z=m:GOSUB 800:m=z:IF m=<0 OR FRAC m<>0
THEN 200 ELSE ERASE a:DIM a(m):GOTO 50
250 CLS:PRINT m$;TAB(0);"f(x)dx = .....";
260 h=b-a:x=a:g=VALF(f$):x=b:f=VALF(f$):a(0)=(g+f)*h/2
300 FOR i=1 TO m:h=h/2
310 s=0:FOR j=1TO 2^i-1STEP 2:x=a+j*h:s=s+VALF(f$):NEXT
320 a(i)=a(i-1)/2+h*s
330 n=1:FOR k=i-1TO 0STEP -1
340 a(k)=a(k+1)+(a(k+1)-a(k))/(4^n-1)
350 IF ABS(a(k+1)-a(k)) <e AND (i>3 OR i=m) THEN x=a(k):GOTO 500
360 n=n+1:NEXT:NEXT:GOSUB 450
390 PRINT c$;"n =" ;m;TAB(11);":An =" ;STR$(a(m-1));:LOCATE 0,0:LOCATE
1,1:z$=INPUT$(1,@):GOTO 50
450 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RETURN
500 x=ROUND(x,INT LOG(ABS e)-1):PRINT c$;"f(x)dx =" ;x;:z$=INPUT$(1,@):GOTO 50
800 CLS:PRINT m$;
810 LOCATE 0,1:PRINT c$;s$="";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0

```

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```
1010 IF ERL=100 THEN IF ERR=2 THEN RESUME 100 ELSE RESUME NEXT
1015 IF ERL=810 THEN RESUME 810
1020 GOSUB 450:RESUME 50
```

Programa 5220

```
5 ON ERROR GOTO 1000
10 DEF CHR$(254)="060A12227E":MODE 8:DIM:PRINT CHR$(15);
30 f$="":c$=CHR$(5):a=0:b=0:h=1:ANGLE 1
90 CLS:PRINT "Define function dy/dx";
100 LOCATE 0,1:PRINT c$;"?";f$;;LOCATE 0,0:LOCATE 1,1:INPUT @100;f$:LOCATE
0,0:z=VALF(f$)
110 IF LEN(f$)<17 THEN g$=f$ ELSE g$=LEFT$(f$,20)+"¥¥¥"
120 m$="dy/dx = "+g$:s$="x0":z=a:GOSUB 800:a=z
140 s$="y0":z=b:GOSUB 800:b=z
150 m$="Step-size ph (ph>0)":s$="ph":z=h:GOSUB 800:h=z:IF h=<0 THEN 150
250 m$="dy/dx = "+g$:n=50
270 ERASE a,b:DIM a(n),b(n):k=32:i=0:j=0:f=a:g=b:GOTO 355
300 IF k>31 THEN CLS:PRINT m$;TAB(0);"....."; ELSE PRINT c$;".....";
305 f=a(i-1):g=b(i-1):j=i
310 x=f:y=g:p=VALF(f$)*h
320 x=f+h/2:y=g+p/2:q=VALF(f$)*h
330 y=g+q/2:r=VALF(f$)*h
340 x=f+h:y=g+r:s=VALF(f$)*h
350 f=f+h:g=g+(p+2*q+2*r+s)/6
355 a(i)=f:b(i)=g
360 y$=""+STR$(g):IF SGN f<0 THEN z$="y("+STR$(f)+") " ELSE
z$="y("+MID$(STR$(f),2)+") "
365 l=LEN(z$)+LEN(y$):IF l>31 THEN CLS:PRINT z$;TAB(0);y$; ELSE IF k>31 THEN
CLS:PRINT m$;TAB(0);z$;y$; ELSE PRINT c$;z$;y$;
370 z=ASC(INPUT$(1,@)):k=1:IF z=29 OR z=28 THEN 90
375 IF z=31 AND i=n THEN 370
380 IF z=13 OR z=31 THEN IF i=n THEN 100 ELSE i=i+1:f=a(i):g=b(i):IF j>=i THEN
360 ELSE 300
390 IF z=30 AND i>0 THEN i=i-1:f=a(i):g=b(i):GOTO 360
400 GOTO 370
450 LOCATE 0,1:PRINT c$;"not found";z$=INPUT$(1,@):RETURN
800 CLS:PRINT m$;
810 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=100 THEN IF ERR=2 THEN RESUME 100 ELSE RESUME NEXT
1020 IF ERL=810 THEN RESUME 810
1030 GOSUB 450:RESUME 90
```

Programa 5230

```
5 ON ERROR GOTO 1000:DEFSEG=0
10 MODE 8:DIM:c$=CHR$(5):n=2:x=0:ERASE a,b:m$="Lagrange's interpolation"
20 CLS:PRINT m$;TAB(0);"1:x          2:set data";
30 k=VAL(INPUT$(1,@)):ON k GOTO 200,60
```

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40 GOTO 30
60 CLS:PRINT "Number of data";
70 s$="n":z=n:GOSUB 500:n=z:IF w THEN 20
75 IF n<2 OR n>200 OR FRAC n<>0 THEN 70
80 DIM a(n),b(n):LOCATE 15,0:PRINT "=";n;
110 FOR i=1 TO n
120 s$="x"+MID$(STR$(i),2):z=a(i):GOSUB 500:IF w THEN IF i=1 THEN 60 ELSE i=i-1
ELSE a(i)=z
130 s$="y"+MID$(STR$(i),2):z=b(i):GOSUB 500:IF w THEN 120 ELSE b(i)=z
140 NEXT:GOTO 20
200 LOCATE 0,1:PRINT c$;"x?";:INPUT @10;z$:LOCATE 0,0:IF z$="" THEN 20 ELSE
x=VALF(z$)
220 c=0:FOR i=1 TO n
230 p=1:FOR j=1 TO n
240 IF i<>j THEN p=p*(x-a(j))/(a(i)-a(j))
250 NEXT
260 c=c+p*b(i):NEXT
280 LOCATE 12,1:PRINT ":y=";STR$(c);:z$=INPUT$(1,@):GOTO 200
500 LOCATE 0,1:PRINT c$;s$;"=";z$;"?";:INPUT @10;z:LOCATE
0,0:w=PEEK(&H65B)-13:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=500 THEN RESUME 500
1020 IF ERL=200 THEN RESUME 200
1030 IF ERL=80 THEN ERASE a,b:RESUME 80
1050 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 5250

```

5 ON ERROR GOTO 1000
10 MODE 8:DIM:ERASE a:DIM a(8):c$=CHR$(5):DEF CHR$(255)="82FE8280C0"
20 RESTORE 400:FOR i=0 TO 8:READ a(i):NEXT:x=1
30 CLS:PRINT "Gamma function (0<xá70)";
50 LOCATE 0,1:PRINT c$;"x =" ;x;"?";:INPUT @6;x:LOCATE 0,0:IF x<0 OR x>70 THEN
50
70 x$=MID$(STR$(x),2)
80 LOCATE 0,1:PRINT c$;"ÿ(" ;x$;" ) = .....";
100 IF x<1 THEN y=x:GOSUB 300:f=f/y:GOTO 200
110 IF x<5 THEN y=x-INT x:GOSUB 300:FOR i=1TO x-1:f=f*(y+i):NEXT:GOTO 200
150 f=EXP((x-.5)*LN x-x+.5*LN(2*PI)+1/12/x-1/360/x^3+1/1260/x^5-1/1680/x^7)
200 IF f THEN f=ROUND(f,LOG(ABS f)-7)
210 PRINT c$;"ÿ(" ;x$;" ) =" ;f;:z$=INPUT$(1,@):GOTO 50
300 f=a(0):FOR i=1 TO 8:f=f*y+a(i):NEXT:RETURN
400 DATA
.035868343,-.193527818,.482199394,-.756704078,.918206857,-.897056937,.988205891
,-.577191652,1
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=50 THEN RESUME 50
1020 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30

```

Programa 5260

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```

5 ON ERROR GOTO 500
10 MODE 8:DIM:c$=CHR$(5)
20 CLS:PRINT "Jn(x)          (0áná9,0áxá30)";
30 LOCATE 0,1:PRINT c$;"n?   :x?       :J=";
40 LOCATE 2,1:INPUT @3;n$:LOCATE 0,0:n=VALF(LEFT$(n$,3)):u=ABS n:IF n<0 OR
u>=10 OR FRAC u<>0 THEN 400
60 LOCATE 8,1:INPUT @6;x$:LOCATE 0,0:x=VALF(LEFT$(x$,6)):v=ABS x:IF x<0 OR v>30
THEN 410
80 LOCATE 17,1:PRINT " .....";:GOSUB 200
100 IF n<0 THEN r=r*(-1)^u
110 IF r<>0 AND ABS r>=1e-90 THEN r=ROUND(r,LOG(ABS r)-7)
115 IF r<>0 AND ABS r<1e-90 THEN r=r*1e10:r=ROUND(r,LOG(ABS r)-7):r=r/1e10
120 LOCATE 18,1:PRINT " ";:LOCATE 17,1:PRINT r;:z$=INPUT$(1,@):GOTO 30
200 IF v+u=0 THEN r=1:RETURN
210 IF v=0 THEN r=0:RETURN
220 k=INT(1+3*v^(1/12)+9*v^(1/3)+(ABS(u-v)+ABS(u+v))/2)
230 s=0:b=1.5:c=0
240 a=2*k/x*b-c:k=k-1
250 IF k=u THEN r=a
260 IF k=0 THEN 290
270 IF (k MOD 2)=0 THEN s=s+a
280 c=b:b=a:GOTO 240
290 s=2*s+a:r=r/s
300 RETURN
400 LOCATE 2,1:PRINT " ";:GOTO 40
410 LOCATE 8,1:PRINT " ";:GOTO 60
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 400
520 IF ERL=60 THEN RESUME 410
530 LOCATE 17,1:PRINT "not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 5270

```

5 ON ERROR GOTO 500
10 MODE 8:DIM:c$=CHR$(5)
20 CLS:PRINT "Yn(x)          (0áná9,0<xá30)";
30 LOCATE 0,1:PRINT c$;"n?   :x?       :Y=";
40 LOCATE 2,1:INPUT @3;n$:LOCATE 0,0:n=VALF(LEFT$(n$,3)):u=ABS n:IF n<0 OR
u>=10 OR FRAC u<>0 THEN 400
60 LOCATE 8,1:INPUT @6;x$:LOCATE 0,0:x=VALF(LEFT$(x$,6)):v=ABS x:IF x=<0 OR
v>30 THEN 410
80 LOCATE 17,1:PRINT " .....";:GOSUB 220
100 IF n<0 THEN r=r*(-1)^u
110 IF r<>0 AND ABS r>=1e-90 THEN r=ROUND(r,LOG(ABS r)-7)
115 IF r<>0 AND ABS r<1e-90 THEN r=r*1e10:r=ROUND(r,LOG(ABS r)-7):r=r/1e10
120 LOCATE 18,1:PRINT " ";:LOCATE 17,1:PRINT r;:z$=INPUT$(1,@):GOTO 30
220 k=INT(1+3*v^(1/12)+9*v^(1/3)+(ABS(u-v)+ABS(u+v))/2)
230 s=0:b=1.5:c=0:j=0
240 a=2*k/x*b-c:k=k-1
250 IF k=1 THEN d=a

```

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```

260 IF k=0 THEN 290
270 IF (k MOD 2)=0 THEN s=s+a:j=j+2*a*(-1)^(k/2-1)/k
280 c=b:b=a:GOTO 240
290 s=2*s+a:j=j/s
300 j=(a*(.577215664901+LN(v/2))/s+2*j)*2/PI
310 IF n=0 THEN r=j:RETURN
320 y=(d/s*j-2/PI/v)/a*s
330 IF u=1 THEN r=y:RETURN
340 FOR i=2 TO u:e=2*(i-1)*y/x-j:j=y:y=e:NEXT
350 r=e:RETURN
400 LOCATE 2,1:PRINT " ";:GOTO 40
410 LOCATE 8,1:PRINT " ";:GOTO 60
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 400
520 IF ERL=60 THEN RESUME 410
530 LOCATE 17,1:PRINT "not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 5280

```

5 ON ERROR GOTO 500
10 MODE 8:DIM:c$=CHR$(5)
20 CLS:PRINT "In(x)          (0áná9,0áxá10)";
30 LOCATE 0,1:PRINT c$;"n?   :x?       :I=";
40 LOCATE 2,1:INPUT @3;n$:LOCATE 0,0:n=VALF(LEFT$(n$,3)):u=ABS n:IF n<0 OR
u>=10 OR FRAC u<>0 THEN 400
60 LOCATE 8,1:INPUT @6;x$:LOCATE 0,0:x=VALF(LEFT$(x$,6)):v=ABS x:IF x<0 OR v>10
THEN 410
80 LOCATE 17,1:PRINT " .....";:GOSUB 200
100 IF x<0 THEN r=r*(-1)^u
110 IF r<>0 AND ABS r>=1e-90 THEN r=ROUND(r,LOG(ABS r)-7)
115 IF r<>0 AND ABS r<1e-90 THEN r=r*1e10:r=ROUND(r,LOG(ABS r)-7):r=r/1e10
120 LOCATE 18,1:PRINT " ";:LOCATE 17,1:PRINT r;:z$=INPUT$(1,@):GOTO 30
200 IF v+u=0 THEN r=1:RETURN
210 IF v=0 THEN r=0:RETURN
220 k=30+(ABS(u-v)+ABS(u+v))/2
230 IF v<2 THEN k=k-20
240 c=0:b=1E-99:s=0
250 FOR k=INT(k-1) TO 0 STEP -1
260 a=2*(k+1)*b/v+c
270 IF k=u THEN d=a
280 s=s+a:c=b:b=a
290 NEXT
300 s=2*s-a:r=d/s*EXP(v)
310 RETURN
400 LOCATE 2,1:PRINT " ";:GOTO 40
410 LOCATE 8,1:PRINT " ";:GOTO 60
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 400
520 IF ERL=60 THEN RESUME 410
530 LOCATE 17,1:PRINT "not found";:z$=INPUT$(1,@):RESUME 20

```

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Programa 5290

```

5 ON ERROR GOTO 500
10 MODE 8:DIM:c$=CHR$(5)
20 CLS:PRINT "Kn(x)          (0áná9,0<xá10)";
30 LOCATE 0,1:PRINT c$;"n?   :x?       :K=";
40 LOCATE 2,1:INPUT @3;n$:LOCATE 0,0:n=VALF(LEFT$(n$,3)):u=ABS n:IF n<0 OR
u>=10 OR FRAC u<>0 THEN 450
60 LOCATE 8,1:INPUT @6;x$:LOCATE 0,0:x=VALF(LEFT$(x$,6)):v=ABS x:IF x<0 OR
v>10 THEN 460
80 LOCATE 17,1:PRINT " .....";:GOSUB 200
100 IF x<0 THEN r=r*(-1)^u
110 IF r<>0 AND ABS r>=1e-90 THEN r=ROUND(r,LOG(ABS r)-7)
115 IF r<>0 AND ABS r<1e-90 THEN r=r*1e10:r=ROUND(r,LOG(ABS r)-7):r=r/1e10
120 LOCATE 18,1:PRINT "      ";:LOCATE 17,1:PRINT r;:z$=INPUT$(1,@):GOTO 30
200 IF v>2 THEN 400
210 c=0:b=1E-99:s=0
220 FOR k=11 TO 0 STEP -1:a=2*(k+1)*b/v+c:s=s+a:c=b:b=a:NEXT
230 s=2*s-a:d=a/s*EXP(v)
240
w=v/2:e=-LN(w)*d-.5772157+.4227842*w^2+.2306976*w^4+.0348859*w^6+.002627*w^8+.0
001075*w^10+.0000074*w^12
250 IF n=0 THEN r=e:RETURN
260 f=(c/s)*EXP(v):g=(1/v-f*e)/d
270 IF u=1 THEN r=g:RETURN
300 a=e:b=g
310 FOR i=1 TO u-1:c=2*i*b/v+a:a=b:b=c:NEXT
320 r=c:RETURN
400
w=2/v:e=(1.2533141-.0783236*w+.0218957*w^2-.0106245*w^3+.0058787*w^4-.0025154*w
^5+.0005321*w^6)*EXP(-v)/SQR v
410 IF n=0 THEN r=e:RETURN
420
g=(1.2533141+.2349862*w-.0365562*w^2+.0150427*w^3-.0078035*w^4+.0032561*w^5-.00
06825*w^6)*EXP(-v)/SQR v
430 IF u=1 THEN r=g:RETURN
440 GOTO 300
450 LOCATE 2,1:PRINT "      ";:GOTO 40
460 LOCATE 8,1:PRINT "      ";:GOTO 60
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 450
520 IF ERL=60 THEN RESUME 460
530 LOCATE 17,1:PRINT "not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 5300

```

5 ON ERROR GOTO 1000
10 MODE 8:DIM:DEF
CHR$(255)="0000FE0000":e=0:f=0:c=0:d=0:g=0:h=0:l$=CHR$(5):GOSUB 580
20 a=e:b=f

```

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```

30 x=a:GOSUB 530:a=x:x=b:GOSUB 530:b=x
50 IF b<0 THEN a$=" -" ELSE a$=" +"
60 LOCATE 0,0:c$=STR$(a):IF a THEN d$=STR$(ABS b) ELSE d$=STR$(b)
70 IF ABS b=1 THEN d$=MID$(d$,1,1)
80 PRINT l$;:IF b=0 THEN PRINT c$; ELSE IF a=0 THEN PRINT d$;"i"; ELSE PRINT
c$;a$;d$;"i";
90 LOCATE 26,1:z=ASC(INPUT$(1)):IF z>96 THEN z=z-32
100 ON z-41 GOTO
260,260,,260,600,260,,,,,,,,,,,,,,,,,220,,380,,,420,,480,,,400,360,,,,,500,,
,,,,,,450
110 GOTO 90
220 CLS:PRINT "Complex number A(a+bi)";
230 e$="a":x=a:GOSUB 520:a=x:e$="b":x=b:GOSUB 520:b=x:GOSUB 580:GOTO 50
260 CLS:PRINT "Complex number B(c+di)";
270 e$="c":x=c:GOSUB 520:c=x:e$="d":x=d:GOSUB 520:d=x
290 GOSUB 580:ON z-41 GOTO 310,320,,330,,340
310 e=a*c-b*d:f=b*c+a*d:GOTO 20
320 e=a+c:f=b+d:GOTO 20
330 e=a-c:f=b-d:GOTO 20
340 e=(a*c+b*d)/(c*c+d*d):f=(b*c-a*d)/(c*c+d*d):GOTO 20
360 g=a:h=b:GOTO 30
380 e=a:f=b:a=c:b=d:c=e:d=f:GOTO 30
400 a=g:b=h:GOTO 30
420 e=SQR(a*a+b*b):f=ACS(a/e):IF b THEN f=f*SGN(b)
430 CLS:PRINT "r =" ;e$;"=" ;x;"?" ;:INPUT @14;x:LOCATE 0,0
450 e=a*a-b*b:f=2*a*b:GOTO 20
480 e=a/(a*a+b*b):f=-b/(a*a+b*b):GOTO 20
500 IF b=0 THEN IF a<0 THEN f=SQR(-a):e=0:GOTO 20 ELSE e=SQR a:f=0:GOTO 20
510 IF b<>0 THEN x=SQR(a*a+b*b):e=SQR((a+x)/2):f=b/(2*e):GOTO 20
520 LOCATE 0,1:PRINT l$;e$;"=" ;x;"?" ;:INPUT @14;x:LOCATE 0,0
530 IF x<>0 AND ABS x>=1e-90 THEN x=ROUND(x,LOG(ABS x)-8)
540 IF x<>0 AND ABS x<1e-90 THEN x=x*1e10:x=ROUND(x,LOG(ABS x)-8):x=x/1e10
550 RETURN
580 CLS:LOCATE 0,1:PRINT ">A,G,I,S,^,+,-,*,/,M,L,C ?";:RETURN
600 CLS:GOSUB 710:i=2
610 PRINT:ON i GOSUB 710,715,720,730,740,750,760,770,780,800,810,820
620 z=ASC(INPUT$(1,@)):IF z=28 OR z=29 THEN 690
630 IF z<>13 AND z<>30 AND z<>31 THEN 620
640 IF (z=30 AND i=1) OR (z=31 AND i=12) THEN 620
650 IF z=30 THEN i=i-2
680 i=i+1:IF i<13 THEN 610
690 GOSUB 580:GOTO 50
710 PRINT " A : input A";:RETURN
715 PRINT " G : Gauss r=ÿAÿ:Æ=argument(A)";:RETURN
720 PRINT " I : inverse 1/A æ A";:RETURN
730 PRINT " S : square root ,A æ A";:RETURN
740 PRINT " ^ : square A' æ A";:RETURN
750 PRINT " + : addition A+B æ A";:RETURN
760 PRINT " - : subtraction A-B æ A";:RETURN
770 PRINT " * : multiplication A*B æ A";:RETURN
780 PRINT " / : division A/B æ A";:RETURN
800 PRINT " M : memory A æ M";:RETURN

```

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```

810 PRINT " L : load          A ä M";:RETURN
820 PRINT " C : change      A äæ B";:RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=520 THEN RESUME 520
1030 LOCATE 0,0:PRINT l$;"not found";:a$=INPUT$(1,@):RESUME 690

```

Programa 5350

```

5 ON ERROR GOTO 2000
10 CLS:MODE 8:DIM:a=1:x=0:y=0:c$=CHR$(5):p=2^31:q=2^32:r=0:x$=" 0":ERASE
a$,b$:DIM a$(5),b$(15)
40 RESTORE 70
50 FOR i=0 TO 5:READ a$(i):NEXT
60 FOR i=0 TO 15:READ b$(i):NEXT
70 DATA BIN,DEC,HEX,AND,OR,XOR
80 DATA
0000,0001,0010,0011,0100,0101,0110,0111,1000,1001,1010,1011,1100,1101,1110,1111
110 CLS:GOSUB 300
120 z=LEN(x$):LOCATE 0,0:IF z<17 THEN PRINT c$;"[";a$(a);"] ";x$; ELSE PRINT
c$;x$;
130 IF r>16 THEN GOSUB 300
140 r=z:LOCATE 31,1
150 f=ASC(INPUT$(1)):IF f>96 THEN f=f-32
160 IF f=73 THEN GOSUB 440:GOSUB 290:GOTO 330
170 IF f=66 AND a<>0 THEN a=0:GOTO 330
180 IF f=68 AND a<>1 THEN a=1:GOTO 330
190 IF f=72 AND a<>2 THEN a=2:GOTO 330
200 IF f=42 OR f=43 OR f=45 OR f=47 THEN GOSUB 460:GOSUB 290:GOTO 800
210 IF f=65 OR f=79 OR f=88 THEN GOSUB 480:GOSUB 290:GOTO 900
220 IF f=76 OR f=82 THEN GOSUB 290:GOTO 1040
230 IF f=78 OR f=67 THEN GOSUB 290:GOTO 1100
240 IF f=46 THEN 1200
250 GOTO 150
270 LOCATE 0,0:PRINT c$;"not found";:z$=INPUT$(1,@):RETURN
290 LOCATE 0,0:PRINT c$;
300 LOCATE 0,1:PRINT ">I,B,D,H,+,-,*,/,A,O,X,N,C,L,R?";:RETURN
330 ON a+1 GOSUB 360,350,360:GOTO 120
350 x$=STR$(x):RETURN
360 IF x<0 THEN t=x+q ELSE t=x
370 s=INT(t/65536):t=t-s*65536:x$=HEX$(s)+HEX$(t):IF a=2 THEN RETURN
380 y$="":FOR i=1 TO 8:y$=y$+b$(VAL("&H"+MID$(x$,i,1))):NEXT x$:y$=y$:RETURN
440 m$="Input data x (,B,D,H) ["+a$(a)+"] x ?":GOSUB 550:x=y:RETURN
460 IF a>0 THEN m$="["+a$(a)+"] " ELSE m$=""
465 m$=m$+x$+" "+CHR$(f)+" ":GOSUB 550:RETURN
480 IF a>0 THEN m$="["+a$(a)+"] " ELSE m$=""
485 m$=m$+x$+" "+a$(SGN(f-79)+4)+" ":GOSUB 550:RETURN
550 CLS:PRINT m$;:INPUT @34;z$:LOCATE 0,0:IF z$="" THEN y=x:RETURN
560 l=LEN(z$):IF l>34 THEN z$=LEFT$(z$,34)
570 d=a:c=1:IF l<2 THEN 630
580 a$=MID$(z$,l-1,1)
590 IF a$="," OR a$="/" THEN c=l-2:d=ASC(RIGHT$(z$,1)):z$=LEFT$(z$,c) ELSE 630

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600 IF d>96 THEN d=d-32
610 IF d=66 OR d=68 OR d=72 THEN d=SGN(d-68)+1 ELSE 550
630 y=0:ON d+1 GOTO 670,710,750
650 IF y<-p OR y>q-1 THEN 550 ELSE IF y>=p THEN y=y-q
660 RETURN
670 FOR i=1TO c:z=ASC(MID$(z$,i,1))-48:IF z=0 OR z=1 THEN y=y*2+z ELSE 550
680 NEXT:GOTO 650
710 e=0:w=0:FOR i=1TO c:z=ASC(MID$(z$,i,1))
720 IF (z>47 AND z<58) OR z=45 OR z=43 OR z=69 THEN 730 ELSE 550
730 IF w=0 THEN y=INT(VALF(z$)):w=1:IF e=1 THEN 550
740 NEXT:GOTO 650
750 FOR i=1 TO c:z=ASC(MID$(z$,i,1)):IF z>96 THEN z=z-32
760 z=z-48:IF z<0 OR z>9 THEN z=z-7:IF z<10 OR z>15 THEN 550
770 y=y*16+z:NEXT:GOTO 650
800 ON f-41 GOSUB 840,850,,860,,870
810 IF w>=p OR w<-p THEN GOSUB 270:GOTO 120 ELSE x=w:GOTO 330
840 w=x*y:RETURN
850 w=x+y:RETURN
860 w=x-y:RETURN
870 w=FIX (x/y):RETURN
900 IF x<0 THEN x=x+q
910 IF y<0 THEN y=y+q
920 u=x-INT(x/65536)*65536:v=y-INT(y/65536)*65536:GOSUB 950:z=u
930 u=INT(x/65536):v=INT(y/65536):GOSUB 950:x=z+u*65536:IF x>=p THEN x=x-q
940 GOTO 330
950 IF u>32767 THEN u=u-65536
960 IF v>32767 THEN v=v-65536
970 IF f=65 THEN u=u AND v ELSE IF f=79 THEN u=u OR v ELSE u=u XOR v
980 IF u<0 THEN u=u+65536
990 RETURN
1040 IF x<0 THEN x=x+q
1050 IF f=76 THEN x=x*2 ELSE x=INT(x/2)
1060 IF x>=q THEN x=x-q
1070 IF x>=p THEN x=x-q
1080 GOTO 330
1100 IF f=78 THEN x=-x-1 ELSE IF x>-p THEN x=-x
1110 GOTO 330
1200 CLS:GOSUB 1300:i=2
1210 PRINT:ON i GOSUB
1300,1310,1320,1330,1340,1350,1360,1370,1380,1390,1400,1410,1420,1430,1440
1220 z=ASC(INPUT$(1,@)):IF z=28 OR z=29 THEN 110
1230 IF z<>13 AND z<>30 AND z<>31 THEN 1220
1240 IF (z=30 AND i=1) OR (z=31 AND i=15) THEN 1220
1250 IF z=30 THEN i=i-2
1270 i=i+1:IF i<16 THEN 1210
1280 GOTO 110
1300 PRINT " I : input data";:RETURN
1310 PRINT " B : binary mode";:RETURN
1320 PRINT " D : decimal mode";:RETURN
1330 PRINT " H : hexadecimal mode";:RETURN
1340 PRINT " + : addition";:RETURN
1350 PRINT " - : subtraction";:RETURN

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1360 PRINT " * : multiplication";RETURN
1370 PRINT " / : division";RETURN
1380 PRINT " A : AND";RETURN
1390 PRINT " O : OR";RETURN
1400 PRINT " X : XOR";RETURN
1410 PRINT " N : NOT";RETURN
1420 PRINT " C : 2's complement";RETURN
1430 PRINT " L : bit shift left";RETURN
1440 PRINT " R : bit shift right";RETURN
2000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
2010 IF ERL>=840 AND ERR=<870 THEN GOSUB 270:RESUME 120
2020 IF ERL=730 THEN e=1:RESUME NEXT
2030 GOSUB 270:RESUME 110

```

Programa 5510

```

5 ON ERROR GOTO 500
10 MODE 8:DIM:ERASE a:DIM a(5):a$="x1y1x2y2ab":c$=CHR$(5)
20 CLS:PRINT "y=ax+b ä- (x1,y1),(x2,y2)";
30 FOR i=0 TO 3
40 LOCATE 0,1:PRINT c$;MID$(a$,1+2*i,2);"=";a(i);"?";:INPUT @42;a(i):LOCATE 0,0
50 NEXT:LOCATE 0,1:PRINT c$;
70 IF a(0)=a(2) THEN IF a(1)=a(3) THEN 100 ELSE PRINT c$;"x
=";a(0);:w$=INPUT$(1,@):GOTO 30
72 IF a(1)=a(3) THEN PRINT c$;"y =" ;a(1);:w$=INPUT$(1,@):GOTO 30
75 a(4)=(a(3)-a(1))/(a(2)-a(0)):a(5)=a(1)-a(4)*a(0)
80 FOR i=4 TO 5:PRINT c$;MID$(a$,i+5,1);"=";a(i);
82 w=ASC(INPUT$(1,@)):IF w=13 THEN 90
84 IF w=30 AND i>4 THEN i=i-2:GOTO 90
85 IF w=31 AND i<5 THEN 90
88 GOTO 82
90 NEXT:GOTO 30
100 LOCATE 0,1:PRINT c$;"not found";:w$=INPUT$(1,@):GOTO 20
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 40
520 RESUME 100

```

Programa 5520

```

5 ON ERROR GOTO 500
10 MODE 8:DIM:a=0:c=0:c$=CHR$(5)
20 CLS:PRINT "Angle(∅) ä- y=ax+b,y=cx+d";
30 s$="a":z=a:GOSUB 100:a=z
40 s$="c":z=c:GOSUB 100:c=z:LOCATE 0,1
60 IF a=c THEN PRINT c$;"Parallel"; ELSE IF a*c=-1 THEN PRINT c$;"Right angle";
ELSE PRINT c$;"∅ =" ;ATN((c-a)/(1+c*a));
70 w$=INPUT$(1,@):GOTO 30
100 LOCATE 0,1:PRINT c$;s$;"=" ;z;"?";:INPUT @42;z:LOCATE 0,0:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=100 THEN RESUME 100

```

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```
520 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20
```

Programa 5530

```
5 ON ERROR GOTO 500
10 MODE 8:DIM:ERASE a:DIM a(3):a$="a b x1y1":c$=CHR$(5)
20 CLS:PRINT "Distance ä- y=ax+b,(x1,y1)";
30 FOR i=0 TO 3
40 LOCATE 0,1:PRINT c$;MID$(a$,1+i*2,(SGN(i-1.5)+1)/2+1);"=";a(i);"?";:INPUT
@42;a(i):LOCATE 0,0
50 NEXT
60 LOCATE 0,1:PRINT c$;"d
=";ABS(a(0)*a(2)-a(3)+a(1))/SQR(a(0)^2+1);:w$=INPUT$(1,@):GOTO 30
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 40
520 LOCATE 0,1:PRINT c$;"not found";:w$=INPUT$(1,@):RESUME 20
```

Programa 5540

```
5 ON ERROR GOTO 500
10 MODE 8:DIM:ERASE a:DIM a(1):c$=CHR$(5):x=0:y=0:a=0:m$="XY"
20 CLS:PRINT "(X,Y) ä- (x,y),angle(∠)";
30 s$="x":z=x:GOSUB 100:x=z
40 s$="y":z=y:GOSUB 100:y=z
50 s$="∠":z=a:GOSUB 100:a=z
60 a(0)=x*COS a-y*SIN a:a(1)=x*SIN a+y*COS a:LOCATE 0,1
70 FOR i=0 TO 1:PRINT c$;MID$(m$,i+1,1);"=";a(i);
75 w=ASC(INPUT$(1,@)):IF w=13 THEN 90
80 IF w=30 AND i>0 THEN i=i-2:GOTO 90
82 IF w=31 AND i<1 THEN 90
88 GOTO 75
90 NEXT:GOTO 30
100 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=100 THEN RESUME 100
520 LOCATE 0,1:PRINT c$;"not found";:w$=INPUT$(1,@):RESUME 20
```

Programa 5550

```
5 ON ERROR GOTO 500
10 MODE 8:DIM:ERASE a:DIM a(8):l$="abr":m$="x1y1x2y2x3y3":c$=CHR$(5)
20 CLS:PRINT "Circle (x1,y1),(x2,y2),(x3,y3)";
30 FOR k=0 TO 5
40 LOCATE 0,1:PRINT c$;MID$(m$,1+2*k,2);"=";a(k);"?";:INPUT @42;a(k):LOCATE 0,0
50 NEXT:LOCATE 0,1:PRINT c$;
60 a=a(0)-a(2):b=a(0)+a(2):c=a(1)-a(3):d=a(1)+a(3):e=(a*b+c*d)/2
70 f=a(2)-a(4):g=a(2)+a(4):h=a(3)-a(5):i=a(3)+a(5):j=(f*g+h*i)/2
80 IF a*h-c*f<>0 THEN a(7)=(a*j-e*f)/(a*h-c*f) ELSE 160
90 IF a<>0 THEN a(6)=(e-a(7)*c)/a ELSE IF f<>0 THEN a(6)=(j-a(7)*h)/f ELSE 160
```

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```

100 a(8)=SQR((a(0)-a(6))^2+(a(1)-a(7))^2)
110 CLS:PRINT "Circle (x-a)'+(y-b)'=r'";:PRINT
120 FOR k=1 TO 3:PRINT c$;MID$(1$,k,1);" =";a(k+5);
125 w=ASC(INPUT$(1,@)):IF w=13 THEN 140
130 IF w=30 AND k>1 THEN k=k-2:GOTO 140
132 IF w=31 AND k<3 THEN 140
138 GOTO 125
140 NEXT:GOTO 20
160 LOCATE 0,1:PRINT c$;"not found";:w$=INPUT$(1,@):GOTO 20
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 40
520 RESUME 160

```

Programa 5560

```

5 ON ERROR GOTO 500
10 MODE 8:DIM:ERASE a:DIM a(4):a$="a b r x1y1":c$=CHR$(5)
20 CLS:PRINT "(x-a)'+(y-b)'=r',(x1,y1)";
30 FOR i=0 TO 4
40 LOCATE 0,1:PRINT c$;MID$(a$,1+2*i,(SGN(i-2.5)+1)/2+1);"=";a(i);"?";:INPUT
@42;a(i):LOCATE 0,0
45 IF i=2 AND a(2)<0 THEN 40
50 NEXT:LOCATE 0,1:PRINT c$;
60 w=(a(3)-a(0))^2+(a(4)-a(1))^2-a(2)^2:IF w<0 THEN 100 ELSE PRINT c$;"l:length
=";SQR(w);:w$=INPUT$(1,@):GOTO 30
100 LOCATE 0,1:PRINT c$;"not found";:w$=INPUT$(1,@):GOTO 20
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 40
520 RESUME 100

```

Programa 5570

```

5 ON ERROR GOTO 500
10 MODE 8:DIM:ERASE a,b,c$:DIM a(4),b(7),c$(7):a$="a b r x1y1":c$=CHR$(5)
20 CLS:PRINT "(x-a)'+(y-b)'=r',(x1,y1)";
30 FOR i=0 TO 4
40 LOCATE 0,1:PRINT c$;MID$(a$,i*2+1,(SGN(i-2.5)+1)/2+1);"=";a(i);"?";:INPUT
@42;a(i):LOCATE 0,0
50 IF i=2 AND a(2)=<0 THEN 40
60 IF i>2 THEN IF ABS(a(i-3)-a(i))/ABS(a(2))>1e5 THEN 30
70 NEXT:a=a(0):b=a(1):r=a(2):x=a(3):y=a(4):LOCATE 0,1:PRINT c$;".....";
75 IF (x-a)^2+(y-b)^2<r^2 THEN GOTO 300
80 IF x=a THEN 100 ELSE
c=(y-b)/(a-x):d=r^2/(a-x):e=c^2+1:f=c*(c*b+d)+b:g=(c*b+d)^2+b^2-r^2:l=f^2-e*g
90 IF l<0 THEN 100 ELSE i=(f+SQR l)/e:k=(f-SQR
l)/e:h=c*(i-b)-d+a:j=c*(k-b)-d+a:GOTO 200
100 IF y=b THEN 300 ELSE
c=(x-a)/(b-y):d=r^2/(b-y):e=c^2+1:f=c*(c*a+d)+a:g=(c*a+d)^2+a^2-r^2:l=f^2-e*g
110 IF l<0 THEN 300 ELSE h=(f+SQR l)/e:j=(f-SQR
l)/e:i=c*(h-a)-d+b:k=c*(j-a)-d+b

```

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```

200 IF ABS(h-j)+ABS(i-k)<>0 THEN 210
201 p$="(x1,y1)=(x2,y2)=(x3,y3),":n=0:c$(0)="d"
202 IF b=y THEN p$=p$+"x=d":b(0)=x:GOTO 400
203 IF x=a THEN p$=p$+"y=d":b(0)=y:GOTO 400
204
n=1:c$(0)="c":c$(1)="d":p$=p$+"y=cx+d":b(0)=(x-a)/(b-y):b(1)=y-(x-a)/(b-y)*x:GO
TO 400
210 p$="(x2,y2),":n=2:c$(0)="x2":c$(1)="y2":c$(2)="d"
220 b(0)=h:b(1)=i
230 IF x=h THEN p$=p$+"x=d":b(2)=x:GOTO 250
232 IF y=i THEN p$=p$+"y=d":b(2)=y:GOTO 250
234
n=3:p$=p$+"y=cx+d":c$(2)="c":c$(3)="d":b(2)=(i-y)/(h-x):b(3)=(y-i)/(h-x)*x+y
250 p$=p$+" : (x3,y3), "
260 n=n+1:c$(n)="x3":b(n)=j
270 n=n+1:c$(n)="y3":b(n)=k
275 n=n+1:c$(n)="f"
280 IF x=j THEN p$=p$+"x=f":b(n)=x:GOTO 400
282 IF y=k THEN p$=p$+"y=f":b(n)=y:GOTO 400
284
p$=p$+"y=ex+f":c$(n)="e":b(n)=(k-y)/(j-x):n=n+1:c$(n)="f":b(n)=(y-k)/(j-x)*x+y:
GOTO 400
300 LOCATE 0,1:PRINT c$;"not found";:w$=INPUT$(1,@):GOTO 20
400 CLS:PRINT p$;:PRINT:FOR z=0 TO n
410 PRINT c$;c$(z);"=";b(z);
420 w=ASC(INPUT$(1,@)):IF w=13 THEN 480
430 IF w=30 AND z>0 THEN z=z-2:GOTO 480
440 IF w=31 AND z<n THEN 480
470 GOTO 420
480 NEXT:GOTO 20
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 IF ERL=40 THEN RESUME 40
550 RESUME 300

```

Programa 5600

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:c=0:h=0:d=0:c$=CHR$(5)
30 CLS:PRINT "Area (triangle)";TAB(0);"1:ah/2 2:ab¥sin¢/2 3:f(a,b,c)";:LOCATE
0,0:LOCATE 0,1
40 w=ASC(INPUT$(1,@))-48:IF w<1 OR w>3 THEN 40
50 ON w GOTO 100,200,300
100 CLS:PRINT "ah/2 a:base h:height";
110 s$="a":z=a:GOSUB 500:a=z
120 s$="h":z=h:GOSUB 500:h=z
130 z=a*h/2:GOTO 400
200 CLS:PRINT "ab¥sin¢/2 a:b:side";
210 s$="a":z=a:GOSUB 500:a=z
220 s$="b":z=b:GOSUB 500:b=z
230 s$="¢":z=d:GOSUB 500:d=z:IF SIN d<0 THEN 230
240 z=a*b*SIN d/2:GOTO 400

```

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```

300 CLS:PRINT ",(s(s-a)(s-b)(s-c)),s=(a+b+c)/2";
320 s$="a":z=a:GOSUB 500:a=z
330 s$="b":z=b:GOSUB 500:b=z
340 s$="c":z=c:GOSUB 500:c=z
350 s=(a+b+c)/2:z=SQR(s*(s-a)*(s-b)*(s-c))
400 IF z<0 THEN 450
410 LOCATE 0,1:PRINT c$;"Area =";z;:z$=INPUT$(1,@):GOTO 30
450 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):GOTO 30
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
920 RESUME 450

```

Programa 5605

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:h=0:c$=CHR$(5)
30 CLS:PRINT "(a+b)h/2      a:b:base  h:height";
40 s$="a":z=a:GOSUB 100:a=z
50 s$="b":z=b:GOSUB 100:b=z
60 s$="h":z=h:GOSUB 100:h=z
70 LOCATE 0,1:PRINT c$;"Area =";(a+b)*h/2;:z$=INPUT$(1,@):GOTO 40
100 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 100
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=100 THEN RESUME 100
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30

```

Programa 5610

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:c=0:h=0:c$=CHR$(5)
30 CLS:PRINT "Area (parallelogram)";TAB(0);"1:ah          2:ab¥sinE";
40 w=ASC(INPUT$(1,@))-48:IF w<1 OR w>2 THEN 40
50 ON w GOTO 100,200
100 CLS:PRINT "ah          a:base  h:height";
110 s$="a":z=a:GOSUB 500:a=z
120 s$="h":z=h:GOSUB 500:h=z
130 z=a*h:GOTO 400
200 CLS:PRINT "ab¥sinE          a:b:side";
210 s$="a":z=a:GOSUB 500:a=z
220 s$="b":z=b:GOSUB 500:b=z
230 s$="E":z=c:GOSUB 500:c=z:IF SIN c<0 THEN 230
240 z=a*b*SIN c
400 LOCATE 0,1:PRINT c$;"Area =";z;:z$=INPUT$(1,@):GOTO 30
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500

```

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```
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5615

```
5 ON ERROR GOTO 100
20 MODE 8:DIM:r=0:c$=CHR$(5)
30 CLS:PRINT "çr'      r:radius";
50 LOCATE 0,1:PRINT c$;"r=";r;"?";:INPUT @42;r:LOCATE 0,0:IF r<0 THEN 50
70 LOCATE 0,1:PRINT c$;"Area =";PI*r*r;:z$=INPUT$(1,@):GOTO 50
100 IF ERR=1 THEN CLS:ON ERROR GOTO 0
110 IF ERL=50 THEN RESUME 50
120 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5620

```
5 ON ERROR GOTO 900
20 MODE 8:DIM:l=0:r=0:a=0:c$=CHR$(5):ANGLE 0
30 CLS:PRINT "Area (sector)";TAB(0);"1:l/2      2:çr'Æ/360";
40 w=ASC(INPUT$(1,@))-48:IF w<1 OR w>2 THEN 40
50 ON w GOTO 100,200
100 CLS:PRINT "l/2  l:circular arc  r:radius";
110 s$="l":z=l:GOSUB 500:l=z
120 s$="r":z=r:GOSUB 500:r=z
130 z=l*r/2:GOTO 400
200 CLS:PRINT "çr'Æ/360      r:radius  Æ:DEG";
220 s$="r":z=r:GOSUB 500:r=z
230 s$="Æ":z=a:GOSUB 500:a=z:IF a>360 THEN 230
240 z=PI*a*r^2/360
400 LOCATE 0,1:PRINT c$;"Area =";z;:z$=INPUT$(1,@):GOTO 30
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5625

```
5 ON ERROR GOTO 900
10 ANGLE 1:MODE 8:DIM:l=0:r=0:c$=CHR$(5):n$="(l-r'sin(l/r))/2"
50 m$=n$+"      l:arc":s$="l":z=l:GOSUB 500:l=z
80 m$=n$+"      r:radius":s$="r":z=r:GOSUB 500:IF z<l/2/PI THEN 80 ELSE r=z
100 LOCATE 0,1:PRINT c$;"Area =";(l*r-r^2*SIN(l/r))/2;:z$=INPUT$(1,@):GOTO 50
300 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):GOTO 50
500 CLS:PRINT m$;
510 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z=<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=510 THEN RESUME 510
920 RESUME 300
```

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Programa 5630

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:c$=CHR$(5)
30 CLS:PRINT "çab          a:b:radius";
40 s$="a":z=a:GOSUB 500:a=z
50 s$="b":z=b:GOSUB 500:b=z
60 LOCATE 0,1:PRINT c$;"Area =";PI*a*b;:z$=INPUT$(1,@):GOTO 40
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30

```

Programa 5635

```

5 ON ERROR GOTO 900
10 MODE 8:DIM:ERASE a,a$:DIM
a(2),a$(2):a$(0)="r:inside":a$(1)="R:outside":a$(2)="l:side"
20 ANGLE 0:n=0:c$=CHR$(5)
30 CLS:PRINT "Area (polygon)";TAB(0);"1:n,ræA  2:n,RæA  3:n,læA";
31 f=ASC(INPUT$(1,@))-48:IF f<1 OR f>3 THEN 31
32 m$="Polygon  "
35 s$="n:number":z=n:GOSUB 500:n=z:IF n<3 OR n>=1e7 OR FRAC n<>0 THEN 35
36 m$=m$+"(n="+MID$(STR$(n),2)+")  "
37 s$=a$(f-1):z=a(f-1):GOSUB 500:a(f-1)=z
40 ON f GOTO 41,42,43
41 s=n*a(0)^2*TAN(180/n):GOTO 50
42 s=n*a(1)^2*SIN(360/n)/2:GOTO 50
43 s=n*a(2)^2/TAN(180/n)/4
50 LOCATE 0,1:PRINT c$;"Area =";ABS s;:z$=INPUT$(1,@):GOTO 30
500 CLS:PRINT m$;s$;
510 LOCATE 0,1:PRINT c$;LEFT$(s$,1);"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0
THEN 510 ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=510 THEN RESUME 510
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30

```

Programa 5650

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:r=0:c$=CHR$(5)
30 CLS:PRINT "4çr'          r:radius";
40 LOCATE 0,1:PRINT c$;"r=";r;"?";:INPUT @42;r:LOCATE 0,0:IF r<0 THEN 40
50 LOCATE 0,1:PRINT c$;"Surface =";4*PI*r^2;:z$=INPUT$(1,@):GOTO 40
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=40 THEN RESUME 40
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30

```

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Programa 5655

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:r=0:h=0:c$=CHR$(5)
30 CLS:PRINT "2çrh+ç(a'+b')    h:height";
50 s$="h":z=h:GOSUB 500:h=z
51 CLS:PRINT "2çrh+ç(a'+b')    a:b:r:radius";
52 s$="a":z=a:GOSUB 500:a=z
53 s$="b":z=b:GOSUB 500:b=z
54 s$="r":z=r:GOSUB 500:r=z
60 LOCATE 0,1:PRINT c$;"Surface =";PI*(2*r*h+a^2+b^2);z$=INPUT$(1,@):GOTO 30
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
920 LOCATE 0,1:PRINT c$;"not found";z$=INPUT$(1,@):RESUME 30

```

Programa 5660

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:r=0:h=0:c$=CHR$(5)
30 CLS:PRINT "2çrh+çar,a=(h(2r-h))  r:radius";
40 s$="r":z=r:GOSUB 500:r=z
45 CLS:PRINT "2çrh+çar,a=(h(2r-h))  h:height";
50 s$="h":z=h:GOSUB 500:h=z
60 a=h*(2*r-h):IF a<0 THEN 300 ELSE a=SQR a
70 LOCATE 0,1:PRINT c$;"Surface =";PI*r*(2*h+a);z$=INPUT$(1,@):GOTO 30
300 LOCATE 0,1:PRINT c$;"not found";z$=INPUT$(1,@):GOTO 30
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
920 RESUME 300

```

Programa 5665

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:r=0:h=0:c$=CHR$(5)
30 CLS:PRINT "2çrh+2çr'    r:radius  h:height";
40 s$="r":z=r:GOSUB 500:r=z
50 s$="h":z=h:GOSUB 500:h=z
70 LOCATE 0,1:PRINT c$;"Surface =";2*PI*r*(r+h);z$=INPUT$(1,@):GOTO 40
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
920 LOCATE 0,1:PRINT c$;"not found";z$=INPUT$(1,@):RESUME 30

```

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Programa 5670

```

5 ON ERROR GOTO 900
20 MODE 8: DIM: r=0: h=0: c$=CHR$(5)
30 CLS: PRINT "çr, (r'+h')+çr'    r:radius";
40 s$="r": z=r: GOSUB 500: r=z
45 CLS: PRINT "çr, (r'+h')+çr'    h:height";
50 s$="h": z=h: GOSUB 500: h=z
70 LOCATE 0,1: PRINT c$; "Surface ="; PI*r*(SQR(r*r+h*h)+r); z$=INPUT$(1,@): GOTO
30
500 LOCATE 0,1: PRINT c$; s$; "="; z; "?"; : INPUT @42; z: LOCATE 0,0: IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS: ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
920 LOCATE 0,1: PRINT c$; "not found"; z$=INPUT$(1,@): RESUME 30

```

Programa 5675

```

5 ON ERROR GOTO 900
20 MODE 8: DIM: r=0: s=0: h=0: c$=CHR$(5)
30 CLS: PRINT "ç(R+r), (h'+(R-r)')+ç(R'+r')";
40 s$="r": z=r: GOSUB 500: r=z
50 s$="R": z=s: GOSUB 500: s=z
60 s$="h": z=h: GOSUB 500: h=z
70 LOCATE 0,1: PRINT c$; "Surface
="; PI*(r+s)*SQR(h*h+(s-r)^2)+PI*(r^2+s^2); z$=INPUT$(1,@): GOTO 40
500 LOCATE 0,1: PRINT c$; s$; "="; z; "?"; : INPUT @42; z: LOCATE 0,0: IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS: ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
920 LOCATE 0,1: PRINT c$; "not found"; z$=INPUT$(1,@): RESUME 30

```

Programa 5700

```

5 ON ERROR GOTO 900
20 MODE 8: DIM: r=0: c$=CHR$(5)
30 CLS: PRINT "4çr''/3    r:radius";
40 LOCATE 0,1: PRINT c$; "r="; r; "?"; : INPUT @42; r: LOCATE 0,0: IF r<0 THEN 40
50 LOCATE 0,1: PRINT c$; "Volume ="; 4*PI*r^3/3; z$=INPUT$(1,@): GOTO 40
900 IF ERR=1 THEN CLS: ON ERROR GOTO 0
910 IF ERL=40 THEN RESUME 40
930 LOCATE 0,1: PRINT c$; "not found"; z$=INPUT$(1,@): RESUME 30

```

Programa 5705

```

5 ON ERROR GOTO 900
20 MODE 8: DIM: a=0: b=0: h=0: c$=CHR$(5)
30 CLS: PRINT "çh(3a'+3b'+h')/6    a:b:radius";

```

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```

40 s$="a":z=a:GOSUB 500:a=z
41 s$="b":z=b:GOSUB 500:b=z
42 CLS:PRINT "çh(3a'+3b'+h')/6      h:height";
43 s$="h":z=h:GOSUB 500:h=z
50 LOCATE 0,1:PRINT c$;"Volume =";PI*h*(3*a^2+3*b^2+h^2)/6;:z$=INPUT$(1,@):GOTO
30
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30

```

Programa 5710

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:r=0:h=0:c$=CHR$(5)
30 CLS:PRINT "2çr'h/3      r:radius  h:height";
40 s$="r":z=r:GOSUB 500:r=z
41 s$="h":z=h:GOSUB 500:h=z
50 LOCATE 0,1:PRINT c$;"Volume =";2*PI*r^2*h/3;:z$=INPUT$(1,@):GOTO 40
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30

```

Programa 5715

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:r=0:h=0:c$=CHR$(5)
30 CLS:PRINT "çr'h      r:radius  h:height";
40 s$="r":z=r:GOSUB 500:r=z
41 s$="h":z=h:GOSUB 500:h=z
50 LOCATE 0,1:PRINT c$;"Volume =";PI*r^2*h;:z$=INPUT$(1,@):GOTO 40
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30

```

Programa 5720

```

5 ON ERROR GOTO 900
20 MODE 8:DIM:r=0:h=0:c$=CHR$(5)
30 CLS:PRINT "çr'h/3      r:radius  h:height";
40 s$="r":z=r:GOSUB 500:r=z
41 s$="h":z=h:GOSUB 500:h=z
50 LOCATE 0,1:PRINT c$;"Volume =";PI*r^2*h/3;:z$=INPUT$(1,@):GOTO 40
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500

```

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```
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5725

```
5 ON ERROR GOTO 900
20 MODE 8:DIM:r=0:s=0:h=0:c$=CHR$(5)
30 CLS:PRINT "çh(r'+rR+R')/3      r:R:radius";
40 s$="r":z=r:GOSUB 500:r=z
41 s$="R":z=s:GOSUB 500:s=z
42 CLS:PRINT "çh(r'+rR+R')/3      h:height";
43 s$="h":z=h:GOSUB 500:h=z
50 LOCATE 0,1:PRINT c$;"Volume =";PI*h*(s^2+s*r+r^2)/3;:z$=INPUT$(1,@):GOTO 30
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5730

```
5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:c=0:h=0:c$=CHR$(5)
30 CLS:PRINT "bh(2a+c)/6  a:b:c:edge h:height";
40 s$="a":z=a:GOSUB 500:a=z
41 s$="b":z=b:GOSUB 500:b=z
42 s$="c":z=c:GOSUB 500:c=z
43 s$="h":z=h:GOSUB 500:h=z
50 LOCATE 0,1:PRINT c$;"Volume =";b*h*(2*a+c)/6;:z$=INPUT$(1,@):GOTO 40
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5735

```
5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:h=0:c$=CHR$(5)
30 CLS:PRINT "abh/3      a:b:edge h:height";
40 s$="a":z=a:GOSUB 500:a=z
41 s$="b":z=b:GOSUB 500:b=z
42 s$="h":z=h:GOSUB 500:h=z
50 LOCATE 0,1:PRINT c$;"Volume =";a*b*h/3;:z$=INPUT$(1,@):GOTO 40
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
```

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```
910 IF ERL=500 THEN RESUME 500
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5740

```
5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:c=0:d=0:h=0:c$=CHR$(5)
30 CLS:PRINT "h(ab+cd+,(abcd))/3 a:b:c:d:edge";
40 s$="a":z=a:GOSUB 500:a=z
41 s$="b":z=b:GOSUB 500:b=z
42 s$="c":z=c:GOSUB 500:c=z
43 s$="d":z=d:GOSUB 500:d=z
44 CLS:PRINT "h(ab+cd+,(abcd))/3 h:height";
45 s$="h":z=h:GOSUB 500:h=z
50 w=a*b*c*d:LOCATE 0,1:PRINT c$;"Volume =";h*(a*b+c*d+SQR
w)/3;:z$=INPUT$(1,@):GOTO 30
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5745

```
5 ON ERROR GOTO 900
20 MODE 8:DIM:a=0:b=0:c=0:c$=CHR$(5)
30 CLS:PRINT "4çabc/3 a:b:c:radius";
40 s$="a":z=a:GOSUB 500:a=z
41 s$="b":z=b:GOSUB 500:b=z
42 s$="c":z=c:GOSUB 500:c=z
50 LOCATE 0,1:PRINT c$;"Volume =";4*PI*a*b*c/3;:z$=INPUT$(1,@):GOTO 40
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0 THEN 500
ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 30
```

Programa 5750

```
5 ON ERROR GOTO 900
10 MODE 8:DIM:ERASE a,a$:DIM
a(2),a$(2):a$(0)="r:inside":a$(1)="R:outside":a$(2)="l:side"
20 s=0:n=3:ANGLE 0:c$=CHR$(5):m$="Polygon (r,R,l) "
40 s$="A:area":z=s:GOSUB 500:s=z
41 s$="n:number":z=n:GOSUB 500:n=z:IF n<3 OR FRAC n<>0 THEN 41
45 CLS:PRINT m$;:PRINT
50 a(0)=SQR(s/n/TAN(180/n))
51 a(1)=SQR(2*s/n/SIN(360/n))
52 a(2)=SQR(ABS(4*s/n*TAN(180/n)))
```

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```

100 FOR i=0 TO 2:PRINT c$;a$(i)" =";a(i);
110 w=ASC(INPUT$(1,@)):IF w=13 THEN 170
120 IF w=30 AND i>0 THEN i=i-2:GOTO 170
130 IF w=31 AND i<2 THEN 170
160 GOTO 110
170 NEXT:GOTO 40
500 CLS:PRINT m$;s$;
510 LOCATE 0,1:PRINT c$;LEFT$(s$,1);"=";z;"?";:INPUT @42;z:LOCATE 0,0:IF z<0
THEN 510 ELSE RETURN
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0
910 IF ERL=510 THEN RESUME 510
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 40

```

Programa 5760

```

5 ON ERROR GOTO 900
10 MODE 8:DIM:ERASE a,a$:DIM a(4),a$(4):c$=CHR$(5)
15 RESTORE 800:FOR i=0 TO 4:READ a$(i):NEXT
20 CLS:PRINT "Select number of face";TAB(0);"1:4f 2:6f 3:8f 4:12f 5:20f";
30 f=ASC(INPUT$(1,@))-48:IF f<1 OR f>5 THEN 30
40 CLS:PRINT "Select input data";TAB(0);"1:a 2:r 3:R 4:S 5:V";
50 k=ASC(INPUT$(1,@))-48:IF k<1 OR k>5 THEN 50
60 RESTORE(800+f*10):READ w$,n$,e$,t$,b,c,x,y:f=f-1:k=k-1
90 CLS:PRINT w$;"hedron";TAB(18);a$(k);
100 LOCATE 0,1:PRINT c$;LEFT$(a$(k),1);"=";a(k);"?";:INPUT @42;a(k):LOCATE 0,0
105 CLS:PRINT w$;"hedron";TAB(18);n$;",";e$;"e,";t$;"v";:PRINT
110 ON k+1 GOTO 200,111,112,113,114
111 a(0)=a(1)/x:GOTO 200
112 a(0)=a(2)/y:GOTO 200
113 a(0)=SQR(ABS(a(3)/b)):GOTO 200
114 a(0)=CUR(a(4)/c)
115 IF a(k)<0 THEN 100
200
a(1)=a(0)*x:a(2)=a(0)*y:a(3)=b*a(0)^2:a(4)=c*a(0)^3:m=SGN(-k)+1:n=SGN(4-k)+3
300 FOR i=m TO n:IF i=k THEN 380
310 PRINT c$;a$(i);" =";a(i);
320 w=ASC(INPUT$(1,@)):IF w=13 THEN 380
330 IF w=30 AND i>m THEN IF i=k+1 THEN i=i-3:GOTO 380 ELSE i=i-2:GOTO 380
340 IF w=31 AND i<n THEN 380
370 GOTO 320
380 NEXT:GOTO 20
800 DATA a:edge,r:inside,R:outside,S:surface,V:volume
810 DATA 4(tetra,3,6,4,1.732050807568,.1178511302,.2041241452319,.6123724357
820 DATA 6(hexa,4,12,8,6,1,.5,.866025403784
830 DATA
8(octa,3,12,6,3.464101615136,.471404520791,.4082482904638,.7071067811865
840 DATA
12(dodeca,5,30,20,20.64572880706,7.663118960622,1.113516364411,1.401258538443
850 DATA
20(icosa,3,30,12,8.66025403784,2.181694990624,.755761314076,.9510565162947
900 IF ERR=1 THEN CLS:ON ERROR GOTO 0

```

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```
910 IF ERL=100 THEN RESUME 100
920 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20
```

Programa 5800

```
5 GOTO 10010
10 DATA a'-b', (a+b)(a-b), 10, 20
20 DATA a''b'', (aùb)(a'úab+b'), 10, 30
30 DATA a''-b'', (a-b)(a+b)(a'+b'), 20, 40
40 DATA a''+b'', (a'+,ÿab+b')(a'-,ÿab+b'), 30, 50
50 DATA a'ù2ab+b', (aùb)', 40, 60
60 DATA a''ù3a'b+3ab'ùb'', (aùb)'', 50, 70
70 DATA (aùb)'ú4ab, (aúb)', 60, 80
80 DATA a'+b'+c'+2bc+2ca+2ab, (a+b+c)', 70, 90
90 DATA a''+a'b'+b'', (a'+ab+b')(a'-ab+b'), 80, 100
100 DATA a''+b''+c''-3abc, (a+b+c)(a'+b'+c'-bc-ca-ab), 90, 110
110 DATA (ac-bd)'+(ad+bc)', (a'+b')(c'+d'), 100, 120
120 DATA (ac+bd)'+(ad-bc)', (a'+b')(c'+d'), 110, 130
130 DATA (ac+bd)'-(ad+bc)', (a'-b')(c'-d'), 120, 140
140 DATA (ac-bd)'-(ad-bc)', (a'-b')(c'-d'), 130, 150
150 DATA a'(b-c)+b'(c-a)+c'(a-b), -(b-c)(c-a)(a-b), 140, 160
160 DATA (b-c)''+(c-a)''+(a-b)'', 3(b-c)(c-a)(a-b), 150, 170
170 DATA a''+b''+c''-2b'c'-2c'a'-2a'b', (a+b+c)(b-c-a)(c-a-b)(a-b-c), 160, 180
180 DATA x'+(a+b)x+ab, (x+a)(x+b), 170, 190
190 DATA x''+(a+b+c)x'+(bc+ca+ab)x+abc, (x+a)(x+b)(x+c), 180, 200
200 DATA a'-b'-c'-2bc, (a+b+c)(a-b-c), 190, 210
210 DATA (a+b+c)(bc+ca+ab)-abc, (b+c)(c+a)(a+b), 200, 220
220 DATA (a+b+c)''-(a''+b''+c''), 3(b+c)(c+a)(a+b), 210, 230
230 DATA a''(b-c)+b''(c-a)+c''(a-b), -(b-c)(c-a)(a-b)(a+b+c), 220, 230
10010 MODE 8:DIM:x=10:y=230:r=x
10020 DEF CHR$(255)="A6AAAA9280"
10110 RESTORE(r)
10120 READ m$,n$,b,c
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT m$;;TAB(1);l$;"=";n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150
```

Programa 5810

```
5 GOTO 10010
10 DATA sin'€+cos'€, 1, 10, 20
20 DATA 1+tan'€, sec'€, 10, 30
30 DATA 1+cot'€, cosec'€, 20, 40
40 DATA sin(ù%), sin^ÿcos%úcos^ÿsin%, 30, 50
50 DATA cos(ù%), cos^ÿcos%úsin^ÿsin%, 40, 60
```

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```

60 DATA tan(ù%),(tanùtan%)/(1útan¥tan%),50,70
70 DATA cot(ù%),(cot¥cotú1)/(cotùcot^),60,80
80 DATA sin2E,2sinE¥cosE,70,90
90 DATA cos2E,cos'E-sin'E,80,100
100 DATA cos2E,1-2sin'E,90,110
110 DATA cos2E,2cos'E-1,100,120
120 DATA tan2E,2tanE/(1-tan'E),110,130
130 DATA sin(E/2),ù,((1-cosE)/2),120,140
140 DATA cos(E/2),ù,((1+cosE)/2),130,150
150 DATA tan(E/2),ù,((1-cosE)/(1+cosE)),140,160
160 DATA tan(E/2),(1-cosE)/sinE,150,170
170 DATA tan(E/2),sinE/(1+cosE),160,180
180 DATA tan(E/2),cosecE-cotE,170,190
190 DATA cot(E/2),ù,((1+cosE)/(1-cosE)),180,200
200 DATA cot(E/2),sinE/(1-cosE),190,210
210 DATA cot(E/2),(1+cosE)/sinE,200,220
220 DATA cot(E/2),cosecE+cotE,210,230
230 DATA sin3E,3sinE-4sin"E,220,240
240 DATA cos3E,4cos"E-3cosE,230,250
250 DATA tan3E,(3tanE-tan"E)/(1-3tan'E),240,260
260 DATA 2sin¥cos%,sin(^+%) + sin(^-%),250,270
270 DATA 2cos¥sin%,sin(^+%) - sin(^-%),260,280
280 DATA 2cos¥cos%,cos(^+%) + cos(^-%),270,290
290 DATA 2sin¥sin%,-(cos(^+%) - cos(^-%)),280,300
300 DATA sin^+sin%,2sin((^+%) / 2) ¥ cos((^-%) / 2),290,310
310 DATA sin^-sin%,2cos((^+%) / 2) ¥ sin((^-%) / 2),300,320
320 DATA cos^+cos%,2cos((^+%) / 2) ¥ cos((^-%) / 2),310,330
330 DATA cos^-cos%, -2sin((^+%) / 2) ¥ sin((^-%) / 2),320,340
340 DATA tan(45ù(E/2)),secEùtanE,330,350
350 DATA tan(45ù(E/2)),(1ùsinE)/cosE,340,360
360 DATA tan(45ù(E/2)),cot(45ù(E/2)),350,370
370 DATA tan(45ù+E),(1+tanE)/(1-tanE),360,380
380 DATA cot(45ù-E),(1+cotE)/(1-cotE),370,380
10010 MODE 8:DIM:x=10:y=380:r=x
10110 RESTORE(r)
10120 READ m$,n$,b,c
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT m$;TAB(1);l$;"=";n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150

```

Programa 5820

```

5 GOTO 10010
10 DATA C,0,10,20
20 DATA xæ,nxæž,10,30
30 DATA x,1,20,40

```

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```

40 DATA 1/x, -1/x', 30, 50
50 DATA , ÿ, 1/(2, ÿ), 40, 60
60 DATA a, aloga, 50, 70
70 DATA e, e, 60, 80
80 DATA eæ, neæ, 70, 90
90 DATA logx, 1/x, 80, 100
100 DATA x, x(logx+1), 90, 110
110 DATA sinx, cosx, 100, 120
120 DATA cosx, -sinx, 110, 130
130 DATA tanx, sec'x, 120, 140
140 DATA cotx, -cosec'x, 130, 150
150 DATA secx, secx¥tanx, 140, 160
160 DATA cosecx, -cosecx¥cotx, 150, 170
170 DATA sinax, a¥cosax, 160, 180
180 DATA cosax, -a¥sinax, 170, 190
190 DATA tanax, a¥sec'ax, 180, 200
200 DATA cotax, -a¥cosec'ax, 190, 210
210 DATA sinžx, 1/, (1-x') (byb<ç/2), 200, 220
220 DATA cosžx, -1/, (1-x') (0<y<ç), 210, 230
230 DATA tanžx, 1/(1+x') (byb<ç/2), 220, 240
240 DATA cotžx, -1/(1+x') (byb<ç/2), 230, 250
250 DATA secžx, "1/(x, (x'-1)) (0<y<ç, x'>1)", 240, 260
260 DATA cosecžx, "1/(x, (x'-1)) (byb<ç/2, x'>1)", 250, 270
270 DATA sinhx, coshx, 260, 280
280 DATA coshx, sinhx, 270, 290
290 DATA tanhx, sech'x, 280, 300
300 DATA cothx, -cosech'x, 290, 310
310 DATA sechx, -sechx¥tanhx, 300, 320
320 DATA cosechx, -cosechx¥cothx, 310, 330
330 DATA sinhžx, 1/, (1+x'), 320, 340
340 DATA coshžx, "1/, (x'-1) (y>0, x'>1)", 330, 350
350 DATA tanhžx, 1/(1-x') (x'<1), 340, 360
360 DATA cothžx, 1/(1-x') (x'>1), 350, 370
370 DATA sechžx, -1/(x, (1-x')) (0<x<1), 360, 380
380 DATA cosechžx, -1/(x, (x'+1)), 370, 380
10010 MODE 8: DIM: x=10: y=380: r=x
10020 DEF CHR$(255)="A2A49C92A2"
10030 DEF CHR$(254)="0000FE0000"
10110 RESTORE(r)
10120 READ m$, n$, b, c
10130 l$="["+MID$(STR$(r/10), 2)+"]": l=32-LEN(l$)
10140 CLS: PRINT "y ="; m$; TAB(1); l$; "y"; CHR$(131); "="; n$;
10150 z=ASC(INPUT$(1, @))
10170 IF z=29 AND r<>x THEN r=x: GOTO 10110
10180 IF z=28 AND r<>y THEN r=y: GOTO 10110
10190 IF z=30 AND r<>b THEN r=b: GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c: GOTO 10110
10280 GOTO 10150

```

Programa 5830

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```

5 GOTO 10010
10 DATA ,x+C,10,20
20 DATA xæ,xæš'/(n+1)+C (n+1â0),10,30
30 DATA 1/x,logÿxÿ+C,20,40
40 DATA 1/(xùa),logÿxùaÿ+C,30,50
50 DATA e,e+C,40,60
60 DATA eæ,eæ/n+C,50,70
70 DATA a,"a/loga+C (a>0,aâ1)",60,80
80 DATA aæ,"aæ/(nÿloga)+C (a>0,aâ1)",70,90
90 DATA logx,x(logx-1)+C,80,100
100 DATA xeæ,eæ/n'ÿ(nx-1)+C,90,110
110 DATA sinx,-cosx+C,100,120
120 DATA sinax,-1/aÿcosax+C,110,130
130 DATA cosx,sinx+C,120,140
140 DATA cosax,1/aÿsinax+C,130,150
150 DATA tanx,-logÿcosxÿ+C,140,160
160 DATA cotx,logÿsinxÿ+C,150,170
170 DATA sin'x,x/2-sin2x/4+C,160,180
180 DATA cos'x,x/2+sin2x/4+C,170,190
190 DATA sec'ax,1/aÿtanax+C,180,200
200 DATA cosec'ax,-1/aÿcotax+C,190,210
210 DATA 1/sinx,log(tan(x/2))+C,200,220
220 DATA 1/cosx,log(tan((ç/4)+(x/2)))+C,210,230
230 DATA eæsinbx,eæ(nÿsinbx-bÿcosbx)/(n'+b')+C,220,240
240 DATA eæcosbx,eæ(nÿcosbx+bÿsinbx)/(n'+b')+C,230,250
250 DATA sinžx,xsinžx+,(1-x')+C,240,260
260 DATA cosžx,xcosžx-,(1-x')+C,250,270
270 DATA sinhx,coshx+C,260,280
280 DATA coshx,sinhx+C,270,290
290 DATA tanhx,log(coshx)+C,280,300
300 DATA 1/(a'-x'),sinž(x/a)+C (ÿxÿ<a),290,310
310 DATA 1/(a'+x'),1/aÿtanž(x/a)+C,300,320
320 DATA 1/(x'ùa'),log(x+,(x'ùa'))+C,310,330
330 DATA ,(a'-x'),1/2ÿ(x,(a'-x')+a'sinž(x/a))+C,320,340
340 DATA 1/(x'-a'),1/2aÿlog((x-a)/(x+a))+C (x>a),330,340
10010 MODE 8:DIM:x=10:y=340:r=x
10020 DEF CHR$(255)="0000FF0000"
10110 RESTORE(r)
10120 READ m$,n$,b,c:IF m$="" THEN m$=CHR$(8)
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT CHR$(129);" ";m$;" dx";TAB(1);l$;"=";n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13)AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150

```

Programa 5840

5 GOTO 10010

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```

10 DATA 1/p,1,10,20
20 DATA 1/p',t,10,30
30 DATA 1/pæ,"tæž/(n-1)!      (n=1,2,3,¥¥¥)",20,40
40 DATA 1/(pùm),eýþ,30,50
50 DATA 1/(p(p+m)),1/m¥(1-e>ýþ),40,60
60 DATA 1/(p'(p+m)),1/m'¥(e>ýþ+mt-1),50,70
70 DATA a/(p'+a'),sinat,60,80
80 DATA p/(p'+a'),cosat,70,90
90 DATA 1/(p'+a'),1/a¥sinat,80,100
100 DATA a/(p'-a'),sinhat,90,110
110 DATA p/(p'-a'),coshat,100,120
120 DATA 1/(p'-a'),1/a¥sinhat,110,130
130 DATA 1/(p(p'+a')),1/a'¥(1-cosat),120,140
140 DATA 1/(p'(p'+a')),1/a"¥(at-sinat),130,150
150 DATA 1/((p+m)(p+n)),1/(n-m)¥(e>ýþ-e>æþ),140,160
160 DATA p/((p+m)(p+n)),1/(m-n)¥(me>ýþ-ne>æþ),150,170
170 DATA 1/(p+m)',te>ýþ,160,180
180 DATA 1/(p+m)æ,"1/(n-1)!¥tæže>ýþ  (n=1,2,3,¥¥¥)",170,190
190 DATA p/(p+m)',e>ýþ(1-mt),180,200
200 DATA 1/(p(p+m)'),1/m'¥(1-(1+mt)e>ýþ),190,210
210 DATA 1/(p'(p+m)'),t/m'-2/m"+2/m"¥e>ýþ+t/m'¥e>ýþ,200,220
220 DATA (p+n)/(p+m)',((n-m)t+1)e>ýþ,210,230
230 DATA 1/(p'+a')',1/2a"¥(sinat-at¥cosat),220,240
240 DATA p/(p'+a')',t/2a¥sinat,230,250
250 DATA p'/(p'+a')',1/2a¥(sinat+at¥cosat),240,260
260 DATA (p'-a')/(p'+a')',t¥cosat,250,270
270 DATA 1/((p+m)' +n'),1/n¥e>ýþsinnt,260,280
280 DATA (p+m)/((p+m)' +n'),e>ýþcosnt,270,290
290 DATA 1/(p"-a"),1/2a"¥(sinhat-sinat),280,300
300 DATA p/(p"-a"),1/2a'¥(coshat-cosat),290,310
310 DATA p'/(p"-a"),1/2a¥(sinhat+sinat),300,320
320 DATA p"/(p"-a"),1/2¥(coshat+cosat),310,330
330 DATA p/(p"+4a"),1/2a'¥sinat¥sinhat,320,340
340 DATA 4a"/(p"+4a"),sinat¥coshat-cosat¥sinhat,330,350
350 DATA 1/p¥((p-m)/(p+m)), -1+2e>ýþ,340,360
360 DATA 1/p'¥((p-m)/(p+m)), 2/m-t-2/m¥e>ýþ,350,360
10010 MODE 8: DIM: x=10: y=360: r=x
10020 DEF CHR$(255)="7840384038"
10030 DEF CHR$(254)="40F8480000"
10040 DEF CHR$(253)="90B8900000"
10050 DEF CHR$(252)="7850502000"
10110 RESTORE(r)
10120 READ m$,n$,b,c
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT "F(p)=";m$;TAB(1);l$;n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150

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Casio FX-850P Libreria interna

Programa 5900

10 GOTO 310
100 DATA Ac Actinium 89(7-3a) 227.0278
101 DATA Ag Silver 47(5-1b) 107.8682
102 DATA Al Aluminium 13(3-3b) 26.98154
103 DATA Am Americium 95(7-3a) (243)
104 DATA Ar Argon 18(3-0) 39.948
105 DATA As Arsenic 33(4-5b) 74.9216
106 DATA At Astatine 85(6-7b) (210)
107 DATA Au Gold 79(6-1b) 196.9665
108 DATA B Boron 5(2-3b) 10.81
109 DATA Ba Barium 56(6-2a) 137.33
110 DATA Be Beryllium 4(2-2a) 9.01218
111 DATA Bi Bismuth 83(6-5b) 208.9804
112 DATA Bk Berkelium 97(7-3a) (247)
113 DATA Br Bromine 35(4-7b) 79.904
114 DATA C Carbon 6(2-4b) 12.011
115 DATA Ca Calcium 20(4-2a) 40.08
116 DATA Cd Cadmium 48(5-2b) 112.41
117 DATA Ce Cerium 58(6-3a) 140.12
118 DATA Cf Californium 98(7-3a) (251)
119 DATA Cl Chlorine 17(3-7b) 35.453
120 DATA Cm Curium 96(7-3a) (247)
121 DATA Co Cobalt 27(4-8) 58.9332
122 DATA Cr Chromium 24(4-6a) 51.996
123 DATA Cs Cesium 55(6-1a) 132.9054
124 DATA Cu Copper 29(4-1b) 63.546
125 DATA Dy Dysprosium 66(6-3a) 162.50
126 DATA Er Erbium 68(6-3a) 167.26
127 DATA Es Einsteinium 99(7-3a) (252)
128 DATA Eu Europium 63(6-3a) 151.96
129 DATA F Fluorine 9(2-7b) 18.998403
130 DATA Fe Iron 26(4-8) 55.847
131 DATA Fm Fermium 100(7-3a) (257)
132 DATA Fr Francium 87(7-1a) (223)
133 DATA Ga Gallium 31(4-3b) 69.72
134 DATA Gd Gadolinium 64(6-3a) 157.25
135 DATA Ge Germanium 32(4-4b) 72.59
136 DATA H Hydrogen 1(1-1a) 1.00794
137 DATA He Helium 2(1-0) 4.00260
138 DATA Hf Hafnium 72(6-4a) 178.49
139 DATA Hg Mercury 80(6-2b) 200.59
140 DATA Ho Holmium 67(6-3a) 164.9304
141 DATA I Iodine 53(5-7b) 126.9045
142 DATA In Indium 49(5-3b) 114.82
143 DATA Ir Iridium 77(6-8) 192.22
144 DATA K Potassium 19(4-1a) 39.0983
145 DATA Kr Krypton 36(4-0) 83.80
146 DATA La Lanthanum 57(6-3a) 138.9055
147 DATA Li Lithium 3(2-1a) 6.941

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148 DATA Lr Lawrencium 103(7-3a) (260)
 149 DATA Lu Lutetium 71(6-3a) 174.967
 150 DATA Md Mendeleevium 101(7-3a) (258)
 151 DATA Mg Magnesium 12(3-2a) 24.305
 152 DATA Mn Manganese 25(4-7a) 54.9380
 153 DATA Mo Molybdenum 42(5-6a) 95.94
 154 DATA N Nitrogen 7(2-5b) 14.0067
 155 DATA Na Sodium 11(3-1a) 22.98977
 156 DATA Nb Niobium 41(5-5a) 92.9064
 157 DATA Nd Neodymium 60(6-3a) 144.24
 158 DATA Ne Neon 10(2-0) 20.179
 159 DATA Ni Nickel 28(4-8) 58.69
 160 DATA No Nobelium 102(7-3a) (259)
 161 DATA Np Neptunium 93(7-3a) 237.0482
 162 DATA O Oxygen 8(2-6b) 15.9994
 163 DATA Os Osmium 76(6-8) 190.2
 164 DATA P Phosphorus 15(3-5b) 30.97376
 165 DATA Pa Protactinium 91(7-3a) 231.0359
 166 DATA Pb Lead 82(6-4b) 207.2
 167 DATA Pd Palladium 46(5-8) 106.42
 168 DATA Pm Promethium 61(6-3a) (145)
 169 DATA Po Polonium 84(6-6b) (209)
 170 DATA Pr Praseodymium 59(6-3a) 140.9077
 171 DATA Pt Platinum 78(6-8) 195.08
 172 DATA Pu Plutonium 94(7-3a) (244)
 173 DATA Ra Radium 88(7-2a) 226.0254
 174 DATA Rb Rubidium 37(5-1a) 85.4678
 175 DATA Re Rhenium 75(6-7a) 186.207
 176 DATA Rh Rhodium 45(5-8) 102.9055
 177 DATA Rn Radon 86(6-0) (222)
 178 DATA Ru Ruthenium 44(5-8) 101.07
 179 DATA S Sulfur 16(3-6b) 32.06
 180 DATA Sb Antimony 51(5-5b) 121.75
 181 DATA Sc Scandium 21(4-3a) 44.9559
 182 DATA Se Selenium 34(4-6b) 78.96
 183 DATA Si Silicon 14(3-4b) 28.0855
 184 DATA Sm Samarium 62(6-3a) 150.36
 185 DATA Sn Tin 50(5-4b) 118.69
 186 DATA Sr Strontium 38(5-2a) 87.62
 187 DATA Ta Tantalum 73(6-5a) 180.9479
 188 DATA Tb Terbium 65(6-3a) 158.9254
 189 DATA Tc Technetium 43(5-7a) (98)
 190 DATA Te Tellurium 52(5-6b) 127.60
 191 DATA Th Thorium 90(7-3a) 232.0381
 192 DATA Ti Titanium 22(4-4a) 47.88
 193 DATA Tl Thallium 81(6-3b) 204.383
 194 DATA Tm Thulium 69(6-3a) 168.9342
 195 DATA U Uranium 92(7-3a) 238.0289
 196 DATA V Vanadium 23(4-5a) 50.9415
 197 DATA W Tungsten 74(6-6a) 183.85
 198 DATA Xe Xenon 54(5-0) 131.29
 199 DATA Y Yttrium 39(5-3a) 88.9059

Casio FX-850P Libreria interna

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200 DATA Yb Ytterbium 70(6-3a) 173.04
201 DATA Zn Zinc 30(4-2b) 65.38
202 DATA Zr Zirconium 40(5-4a) 91.22
203 DATA \
310 DIM:MODE 8:ERASE a$:DIM a$(17)
320 a$(0)=" 1a 2a 3a 4a 5a 6a 7a 8 8 8"
330 a$(1)=" 1b 2b 3b 4b 5b 6b 7b 0"
340 a$(2)="H"
350 a$(3)=" He"
360 a$(4)="Li Be"
370 a$(5)=" B C N O F Ne"
380 a$(6)="Na Mg"
390 a$(7)=" Al Si P S Cl Ar"
400 a$(8)="K Ca Sc Ti V Cr Mn Fe Co Ni"
410 a$(9)="Cu Zn Ga Ge As Se Br Kr"
420 a$(10)="Rb Sr Y Zr Nb Mo Tc Ru Rh Pd"
430 a$(11)="Ag Cd In Sn Sb Te I Xe"
440 a$(12)="Cs Ba ** Hf Ta W Re Os Ir Pt"
450 a$(13)="Au Hg Tl Pb Bi Po At Rn"
460 a$(14)="Fr Ra ***"
470 a$(15)=""
471 a$(16)="Lanthanoid: La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Lu"
472 a$(17)="Actinoid:Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No Lr"
490 a=2
500 CLS:IF a<16 THEN PRINT a$(a MOD 2);TAB(0);MID$(STR$(INT(a/2)),2);": ";a$(a);
ELSE PRINT RIGHT$(STR$(a),1)": ";a$(a);
510 k=ASC(INPUT$(1,@)):IF k=13 THEN 620
520 IF k=28 AND a<15 AND FRAC(a/2)=0 THEN a=a+1:GOTO 500
525 IF k=29 AND a>2 AND FRAC(a/2)<>0 THEN a=a-1:GOTO 500
530 IF k=30 AND a>3 THEN a=a-SGN(17-a)-1:GOTO 500
535 IF k=31 AND a<17 THEN a=a+(SGN(14.5-a)+1)/2+1:GOTO 500
540 GOTO 510
620 CLS:PRINT "Input the symbol :";TAB(0);"Push [EXE] then return";
630 LOCATE 19,0:PRINT " ";:LOCATE 19,0:INPUT @3;d$:IF d$="" THEN 500 ELSE
e=LEN(d$):IF e=3 THEN 630
635 d=ASC(d$):IF d>96 THEN d=d-32
636 c=ASC(MID$(d$,2)):IF c<91 THEN c=c+32
640 IF d<65 OR d>90 THEN 630 ELSE d$=CHR$(d)+CHR$(c)
650
b=100+14*INT(d/67)+15*INT(d/70)+17*INT(d/76)+16*INT(d/79)+17*INT(d/83)+16*INT(d
/85)
660 RESTORE(b)
665 READ c$:e$=LEFT$(c$,2):IF ASC(e$)>d THEN 630
670 IF e$<>d$ THEN 665 ELSE LOCATE 0,1:PRINT CHR$(5);c$;
690 GOTO 630

```

Programa 5910

```

5 GOTO 10010
10 DATA F ,9.648456,010" [C¥molž],010" [emu¥molž],E4,E3,10,20
20 DATA G ,6.6720,010>' [m"¥s>'¥kgž],010>~ [cm"¥s>'¥gž],E-11,E-8,10,30

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```

30 DATA Na,6.022045,010'“ [molž],010'“ [molž],E23,E23,20,40
40 DATA R ,8.31441," [J¥molž¥Kž]",010— [erg¥molž¥Kž],,E7,30,50
50 DATA Rÿ,1.097373177,010— [mž],010• [cmž],E7,E5,40,60
60 DATA Vm,22.41383,010>'“ [m“¥molž],010“ [cm“¥molž],E-3,E3,50,70
70 DATA aû,5.2917706,010>'‘ [m],010>'™ [cm],E-11,E-1,60,80
80 DATA c ,299792458," [m¥sž]",010' [cm¥sž],,E2,70,90
90 DATA e ,1.6021892,010>'™ [C],010>' [emu],E-19,E-20,80,100
100 DATA g ,9.80665," [m¥s>']",010' [cm¥s>'],,E2,90,110
110 DATA h ,6.626176,010>'“ [J¥s],010>'— [erg¥s],E-34,E-27,100,120
120 DATA k ,1.380662,010>'“ [J¥Kž],010>'— [erg¥Kž],E-23,E-16,110,130
130 DATA me,9.109534,010>'“ [kg],010>'~ [g],E-31,E-28,120,140
140 DATA mn,1.6749543,010>'— [kg],010>'” [g],E-27,E-24,130,150
150 DATA mp,1.6726485,010>'— [kg],010>'” [g],E-27,E-24,140,160
160 DATA u ,1.6605655,010>'— [kg],010>'” [g],E-27,E-24,150,170
170 DATA <û,8.854187818,010>'‘ [F¥mž],,E-12,,160,180
180 DATA û,12.5663706144,010>— [H¥mž],,E-7,,170,190
190 DATA b,9.274078,010>'” [J¥Tž],010>'‘ [erg¥Gž],E-24,E-21,180,200
200 DATA e,9.284832,010>'” [J¥Tž],010>'‘ [erg¥Gž],E-24,E-21,190,210
210 DATA p,1.4106171,010>'— [J¥Tž],010>'“ [erg¥Gž],E-26,E-23,200,220
220 DATA Ž ,5.67032,010>'~ [W¥m>'¥K>"],010>'•[erg¥sžcm>'K>"],E-8,E-5,210,220
10010 u=0:MODE 8:DIM:x=10:y=220:d$=CHR$(5):r=x:DEF CHR$(255)="060A040A0D"
10050 CLS:LOCATE 0,1:PRINT ">constant : key A-Z ?";
10110 RESTORE(r)
10120 READ m$,n$,s$,t$,x$,y$,b,c:l$="["+MID$(STR$(r/10),2)+"]":IF r<100 THEN
l$=" "+l$
10130 IF u=1 THEN u$=t$ ELSE u$=s$
10140 d=0:LOCATE 0,0:PRINT d$;m$;" =";n$;u$;:LOCATE 27,1:PRINT l$;
10150 LOCATE 30,1:z=ASC(INPUT$(1,@))
10165 IF z>96 THEN z=z-32
10170 IF z=28 AND u<>1 THEN u=1:GOTO 10130
10180 IF z=29 AND u<>0 THEN u=0:GOTO 10130
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
10220 IF z>64 AND z<91 THEN GOSUB 10310:d=1
10230 IF (z=28 OR z=29) AND d=1 THEN 10140
10280 GOTO 10150
10310 LOCATE 0,0:PRINT "[";CHR$(z);"]";
10320 IF u=1 THEN v$=n$+y$ ELSE v$=n$+x$
10330 a=VAL(v$)
10350 ON z-64 GOSUB
10401,10402,10403,10404,10405,10406,10407,10408,10409,10410,10411,10412,10413,1
0414,10415,10416,10417,10418,10419,10420,10421,10422,10423,10424,10425,10426
10401 A=a:RETURN
10402 B=a:RETURN
10403 C=a:RETURN
10404 D=a:RETURN
10405 E=a:RETURN
10406 F=a:RETURN
10407 G=a:RETURN
10408 H=a:RETURN
10409 I=a:RETURN
10410 J=a:RETURN

```

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```

10411 K=a:RETURN
10412 L=a:RETURN
10413 M=a:RETURN
10414 N=a:RETURN
10415 O=a:RETURN
10416 P=a:RETURN
10417 Q=a:RETURN
10418 R=a:RETURN
10419 S=a:RETURN
10420 T=a:RETURN
10421 U=a:RETURN
10422 V=a:RETURN
10423 W=a:RETURN
10424 X=a:RETURN
10425 Y=a:RETURN
10426 Z=a:RETURN

```

Programa 5920

```

5 GOTO 10010
10 DATA HCOOH,HCOO> + Hš,10,20,1.77đ10>”,a,
20 DATA CHÝCOOH,CHÝCOO> + Hš,10,30,1.75đ10>•,a,
30 DATA CÿHþCOOH,CÿHþCOO> + Hš,20,40,6.31đ10>•,a,2
40 DATA HÿCOý,Hš + HCOý>,30,50,4.45đ10>- ,a,
50 DATA CÿHþOH,CÿHþO> + Hš,40,60,1.00đ10>’,a,2
60 DATA NHý + HÿO,NHÿš + OH>,50,70,1.78đ10>•,b,1
70 DATA CþHþN + HÿO,CþHþNHš + OH>,60,80,1.5đ10>™,b,
80 DATA CÿHþNHÿ + HÿO,CÿHþNHÿš + OH>,70,80,3.8đ10>’,b,2
10010 MODE 8:DIM:x=10:y=80:r=x
10020 DEF CHR$(252)="2E2A3A0000"
10030 DEF CHR$(253)="2A2A3E0000"
10035 DEF CHR$(254)="3A2A2E0000"
10040 DIM:ERASE a$:DIM a$(2):RESTORE 10080
10050 FOR i=1 TO 2:READ a$(i):NEXT
10080 DATA 38083E0000,3E2A2E0000
10110 RESTORE(r)
10120 READ m$,n$,b,c,d$,e$,d:CLS
10125 IF d THEN DEF CHR$(255)=a$(d)
10130 l$="["+MID$(STR$(r/10),2)+"]"
10140 CLS:PRINT m$;" äæ ";n$;TAB(0);"K";e$;" = ";d$;" [mol/l]";TAB(28);l$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29AND r<>x THEN r=x:GOTO 10110
10180 IF z=28AND r<>y THEN r=y:GOTO 10110
10190 IF z=30AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150

```

Programa 5930

```

5 GOTO 10010

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10 DATA Uniformly accelerated motion,"v=v̇+at , a=îv/ît , s=v̇t+at'/2",10,20,
20 DATA Newton's equation of motion,F=ma,10,30,
30 DATA Circular motion,T=2çr/v=2ç/ß=1/f,20,40,
40 DATA Circular motion,"ß=2ç/T=2çf=v/r , F=mrß'=mv'/r",30,50,
50 DATA Simple harmonic oscillation,"x=r¥sinßt , v=rß¥cosßt , a=-ß'x",40,60,
60 DATA Hooke's law,F=-kx,50,70,
70 DATA Spring,"a=F/m=-k/m¥x , T=2ç,(m/k)",60,80,
80 DATA Simple pendulum,"a=F/m=-g/l¥x , T=2ç,(l/g)",70,90,
90 DATA Potential energy,Ep=mgh,80,100,
100 DATA Elastic energy (spring),Ee=1/2¥kx',90,110,
110 DATA Kinetic energy,Ek=1/2¥mv',100,120,
120 DATA Coefficient of friction,F=N,110,130,
130 DATA Work,W=Fs,120,140,
140 DATA Kepler's law (3'rd),T'/r'^=Constant,130,150,
150 DATA Universal gravitation,"F=G¥Mm/r' , G=6.7*10ÿ' [N¥m'/kg' ]",140,160,
160 DATA Potential energy (planet),Up=-G¥Mm/r ,150,170,
170 DATA Kinetic energy (planet),Ek=1/2¥mr'ß',160,180,
180 DATA Moment of inertia,"I=mr' , E=1/2¥Iß'",170,190,
190 DATA Angular momentum,J=Iß,180,200,
200 DATA Conservation of momentum,mv̇ü+MV̇ü=mv'ý+MV'ý,190,200,
10010 MODE 8:DIM:x=10:y=200:r=x
10020 DEF CHR$(255)="202048F808"
10030 DEF CHR$(254)="3E020C223E"
10040 DEF CHR$(253)="2E2A3A0000"
10050 DEF CHR$(252)="123E020000"
10110 RESTORE(r)
10120 CLS:READ m$,n$,b,c,d
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 PRINT m$;TAB(1);l$;n$;:LOCATE 0,0:LOCATE 1,1
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150

```

Programa 5932

```

5 GOTO 10010
10 DATA Wave,"v=ÿ/T=fÿ , y=a¥sin2ç(t/T-x/ÿ)",10,20,
20 DATA Wave of string,v=(F/ß),10,30,1,3E40484830
30 DATA Interference,"lý-lü=(2n+1)ÿ/2 , lý-lü=nÿ",20,40,
40 DATA Stationary wave,"l=nÿ/2 , l=(2n-1)ÿ/4 (nâ0)",30,50,
50 DATA Refraction,n=sinË/sin=vvü/v'ý=ÿü/ÿ'ý,40,60,
60 DATA Natural frequency (wave),f=(1/2l)¥,(T/ß),50,70,1,3E40484830
70 DATA Velocity of sound,v=331.5+0.61T,60,80,
80 DATA Doppler effect,f=fü¥(v-vü)/(v-v'ý),70,90,
90 DATA Beat,f=fü-f'ý (fü>f'ý),80,100,
100 DATA Reflectivity,Rü=((nü-n'ý)/(nü+n'ý))',90,110,
110 DATA Critical angle,sinË=nü/n'ý,100,120,
120 DATA de Broglie wave,ÿ=h/mv,110,130,

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130 DATA Quantum condition,2çr=nh/mv=nÿ,120,140,
140 DATA Photoelectron,1/2ÿmv'=hþ-W,130,150,1,3E02040830
150 DATA Frequency condition,hþ=Em-En (m>n),140,160,
160 DATA Light wave,"ÿ=c/þ , c=2.998*10~ [m/s]",150,160,1,3E02040830
10010 MODE 8:DIM:x=10:y=160:r=x
10020 DEF CHR$(255)="424C300806"
10030 DEF CHR$(253)="2E2A3A0000"
10050 DEF CHR$(252)="123E020000"
10110 RESTORE(r)
10120 CLS:READ m$,n$,b,c,d:IF d=1 THEN READ d$:DEF CHR$(254)=d$
10130 l$="["+MID$(STR$(r/10),2)+]":l=32-LEN(l$)
10140 PRINT m$;TAB(1);l$;n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150

```

Programa 5934

```

5 GOTO 10010
10 DATA Ohm's law,"V=IR (I=Q/t , R=þÿ1/S)",10,20,1,3E40484830
20 DATA Resistance,"R=Rÿ+Rý , 1/R=1/Rÿ+1/Rý",10,30,
30 DATA DC circuit,V=E-IR,20,40,
40 DATA DC power & Joule heat,"P=IV=I'R , W=IVt=Pt",30,50,
50 DATA Conductance,G=1/R=I/V,40,60,
60 DATA Kirchhoff's law,"ÿI=0 , ÿV=0",50,70,
70 DATA Wheatstone bridge,RÿRÿ=RýRþ,60,80,1,2A2A3E0000
80 DATA AC instantaneous value,"V=Vÿsinÿt , I=Iÿsinÿt",70,90,
90 DATA AC effective value,"I=Iÿ/2 , V=Vÿ/2",80,100,
100 DATA AC power,P=VI=VÿIÿ/2,90,110,
110 DATA Power factor,P=VIÿcos,100,120,
120 DATA Transformer,"IÿVÿ=IýVý , Ný/Nÿ=Vý/Vÿ",110,130,
130 DATA Reactance,"X=ÿL=2çfL , X=1/ÿC=1/2çfC",120,140,
140 DATA Impedance,"Z=(R'+(ÿL-1/ÿC)') , Vÿ=ZIÿ",130,150,
150 DATA Natural frequency (circuit),fÿ=1/2ç,(LC),140,160,
160 DATA Electric oscillation,1/2ÿQ'/C+1/2ÿLI'=Constant,150,160,
10010 MODE 8:DIM:x=10:y=160:r=x
10020 DEF CHR$(255)="3E020C223E"
10040 DEF CHR$(253)="2E2A3A0000"
10050 DEF CHR$(252)="123E020000"
10110 RESTORE(r)
10120 CLS:READ m$,n$,b,c,d:IF d=1 THEN READ d$:DEF CHR$(254)=d$
10130 l$="["+MID$(STR$(r/10),2)+]":l=32-LEN(l$)
10140 PRINT m$;TAB(1);l$;n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110

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10280 GOTO 10150

Programa 5936

5 GOTO 10010

10 DATA Coulomb's law (electric f.), "F=k \hat{u} Q \hat{u} Q \hat{y} /r'² , k \hat{u} =9*10⁹[N \hat{y} m'²/C'²]",10,20,
 20 DATA Electric field,"E=V/d , F=QE , W=QV",10,30,
 30 DATA Capacitance,"Q=CV , C= \hat{u} S/d",20,40,
 40 DATA Capacitance,"C=C \hat{u} +C \hat{y} , 1/C=1/C \hat{u} +1/C \hat{y} ",30,50,
 50 DATA Dielectric constant,"D= \hat{u} E , C= \hat{u} C \hat{u} ",40,60,
 60 DATA Electrostatic energy,U=1/2QV=1/2CV',50,70,
 70 DATA Electrons in electric field,"a=QE/m , 1/2mv'²=eV",60,80,
 80 DATA Coulomb's law (magnetic f.),"F=k \hat{u} m \hat{u} m \hat{y} /r'² , k \hat{u} =10⁻⁷/(4 \hat{c})'",70,90,
 90 DATA Magnetic field,"H=I/2 \hat{c} r , H=I/2r , H=nI",80,100,
 100 DATA Magnetic field,F= \hat{u} IHl=IBl,90,110,
 110 DATA Magnetic flux density,B=m/4 \hat{c} r'²= \hat{u} H,100,120,
 120 DATA Lorentz force,"F=QvB , r=mv/QB",110,130,
 130 DATA Electrons in magnetic field,"1/2mv'²=Q'B'r'²/2m , \hat{p} =v/r=QB/m",120,140,
 140 DATA Faraday's law of induction,V=-n \hat{u} i/it,130,150,
 150 DATA Electromagnetic induction,"V=El=vBl , I=vBl/R",140,160,
 160 DATA Mutual induction,V \hat{y} =-M \hat{u} i \hat{u} /it,150,170,
 170 DATA Self-induction,Vf=-L \hat{u} iI/it,160,170,
 10010 MODE 8:DIM:x=10:y=170:r=x
 10020 DEF CHR\$(254)="3E020C223E"
 10040 DEF CHR\$(253)="2E2A3A0000"
 10050 DEF CHR\$(252)="123E020000"
 10110 RESTORE(r)
 10120 CLS:READ m\$,n\$,b,c,d
 10130 l\$="["+MID\$(STR\$(r/10),2)+"]":l=32-LEN(l\$)
 10140 PRINT m\$;TAB(1);l\$;n\$;:LOCATE 0,0:LOCATE 1,1
 10150 z=ASC(INPUT\$(1,@))
 10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
 10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
 10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
 10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
 10280 GOTO 10150

Programa 5938

5 GOTO 10010

10 DATA Absolute temperature,T[K]=t[\hat{B} C]+273.15,10,20,
 20 DATA Heat capacity,Q=CT=mcT,10,30,
 30 DATA Mechanical equivalent of heat,"W=JQ , J=4.19 [J/cal]",20,40,
 40 DATA Boyle's law,PV=Constant (T=constant),30,50,
 50 DATA Volume & Temperature,V=V \hat{u} (1+T/273),40,60,
 60 DATA Charle's law,V/V \hat{u} =T/T \hat{u} ,50,70,
 70 DATA Equation of state,"PV=nRT , R=8.31 [J/K]",60,80,
 80 DATA Law of partial pressures,P=P \hat{u} +P \hat{y} +P \hat{p} + \hat{y} \hat{y} ,70,90,1,2A2A3E0000
 90 DATA Pressure,P=1/3 \hat{y} nm \hat{p} ' ,80,100,1,B08C828CB0
 100 DATA Internal energy,U=1/2 \hat{y} nm \hat{p} 'N=3/2 \hat{y} nRT,90,110,1,B08C828CB0

Casio FX-850P Libreria interna

```

110 DATA Specific heat,"Cv=îU/îT=3R/2 , Cp=îU/îT+R=5R/2",100,120,
120 DATA Half life,N=Nû(1/2)þ (x=1/T),110,130,1,40F8480000
130 DATA Mass-energy relation ,E=mc',120,130,
10010 MODE 8:DIM:x=10:y=130:r=x
10040 DEF CHR$(253)="2E2A3A0000"
10050 DEF CHR$(252)="123E020000"
10110 RESTORE(r)
10120 CLS:READ m$,n$,b,c,d:IF d=1 THEN READ d$:DEF CHR$(254)=d$
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 PRINT m$;TAB(1);l$;n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13) AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150

```

Programa 5950

```

5 GOTO 10010
10 DATA x[cm],0.01x[m],X[m]=0.01*x[cm],10,20
20 DATA x[cm],0.393701x[in],X[in]=.393701*x[cm],10,30
30 DATA x[cm],0.0328084x[ft],X[ft]=.0328084*x[cm],20,40
40 DATA x[cm],0.0109361x[yd],X[yd]=.0109361*x[cm],30,50
50 DATA x[cm],0.00000621371x[mile],X[mile]=6.21371E-6*x[cm],40,60
60 DATA x[m],100x[cm],X[cm]=100*x[m],50,70
70 DATA x[m],39.3701x[in],X[in]=39.3701*x[m],60,80
80 DATA x[m],3.28084x[ft],X[ft]=3.28084*x[m],70,90
90 DATA x[m],1.09361x[yd],X[yd]=1.09361*x[m],80,100
100 DATA x[m],0.000621371x[mile],X[mile]=.000621371*x[m],90,110
110 DATA x[in],2.54x[cm],X[cm]=2.54*x[in],100,120
120 DATA x[in],0.0254x[m],X[m]=.0254*x[in],110,130
130 DATA x[in],0.0833333x[ft],X[ft]=.0833333*x[in],120,140
140 DATA x[in],0.0277778x[yd],X[yd]=.0277778*x[in],130,150
150 DATA x[in],0.0000157828x[mile],X[mile]=1.57828E-5*x[in],140,160
160 DATA x[ft],30.48x[cm],X[cm]=30.48*x[ft],150,170
170 DATA x[ft],0.3048x[m],X[m]=.3048*x[ft],160,180
180 DATA x[ft],12x[in],X[in]=12*x[ft],170,190
190 DATA x[ft],0.333333x[yd],X[yd]=.333333*x[ft],180,200
200 DATA x[ft],0.000189394x[mile],X[mile]=1.89394E-4*x[ft],190,210
210 DATA x[yd],91.44x[cm],X[cm]=91.44*x[yd],200,220
220 DATA x[yd],0.9144x[m],X[m]=.9144*x[yd],210,230
230 DATA x[yd],36x[in],X[in]=36*x[yd],220,240
240 DATA x[yd],3x[ft],X[ft]=3*x[yd],230,250
250 DATA x[yd],0.000568182x[mile],X[mile]=5.68182E-4*x[yd],240,260
260 DATA x[mile],160934.4x[cm],X[cm]=160934.4*x[mile],250,270
270 DATA x[mile],1609.344x[m],X[m]=1609.344*x[mile],260,280
280 DATA x[mile],63360x[in],X[in]=63360*x[mile],270,290
290 DATA x[mile],5280x[ft],X[ft]=5280*x[mile],280,300
300 DATA x[mile],1760x[yd],X[yd]=1760*x[mile],290,300
10010 MODE 8:DIM:x=10:y=300:r=x

```

Casio FX-850P Libreria interna

```

10050 p$="Metric conversion (length)"
10110 RESTORE(r)
10120 READ m$,n$,s$,b,c
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT p$;TAB(1);l$;m$;" -æ ";n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF z=31 AND r<>c THEN r=c:GOTO 10110
10210 IF z=13 THEN CALC$=s$:CALCJMP
10280 GOTO 10150

```

Programa 5960

```

5 GOTO 10010
10 DATA x[m'],0.01x[a],X[a]=0.01*x[m'],10,20
20 DATA x[m'],0.000247105x[acre],X[acre]=2.47105E-4*x[m'],10,30
30 DATA x[m'],0.000000386102x[mile'],X[mile']=3.86102E-7*x[m'],20,40
40 DATA x[a],100x[m'],X[m']=100*x[a],30,50
50 DATA x[a],0.0247105x[acre],X[acre]=0.0247105*x[a],40,60
60 DATA x[a],0.0000386102x[mile'],X[mile']=3.86102E-5*x[a],50,70
70 DATA x[acre],4046.86x[m'],X[m']=4046.86*x[acre],60,80
80 DATA x[acre],40.4686x[a],X[a]=40.4686*x[acre],70,90
90 DATA x[acre],0.0015625x[mile'],X[mile']=.0015625*x[acre],80,100
100 DATA x[mile'],2589990x[m'],X[m']=2589990*x[mile'],90,110
110 DATA x[mile'],25899.9x[a],X[a]=25899.9*x[mile'],100,120
120 DATA x[mile'],640x[acre],X[acre]=640*x[mile'],110,120
10010 MODE 8:DIM:x=10:y=120:r=x
10050 p$="Metric conversion (area)"
10110 RESTORE(r)
10120 READ m$,n$,s$,b,c
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT p$;TAB(1);l$;m$;" -æ ";n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF z=31 AND r<>c THEN r=c:GOTO 10110
10210 IF z=13 THEN CALC$=s$:CALCJMP
10280 GOTO 10150

```

Programa 5970

```

5 GOTO 10010
10 DATA x[cm"],0.000001x[m"],X[m"]=1e-6*x[cm"],10,20
20 DATA x[cm"],0.0610237x[in"],X[in"]=.0610237*x[cm"],10,30
30 DATA x[cm"],0.0000353147x[ft"],X[ft"]=3.53147E-5*x[cm"],20,40
40 DATA x[cm"],0.001x[l],X[l]=.001*x[cm"],30,50
50 DATA x[cm"],0.000264172x[gal(US)],X[gal(US)]=2.64172E-4*x[cm"],40,60

```

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```

60 DATA x[cm"],0.000219968x[gal(UK)],X[gal(UK)]=2.19968E-4*x[cm"],50,70
70 DATA x[m"],1000000x[cm"],X[cm"]=1E6*x[m"],60,80
80 DATA x[m"],61023.7x[in"],X[in"]=61023.7*x[m"],70,90
90 DATA x[m"],35.3147x[ft"],X[ft"]=35.3147*x[m"],80,100
100 DATA x[m"],1000x[l],x[l]=1E3*x[m"],90,110
110 DATA x[m"],264.172x[gal(US)],X[gal(US)]=264.172*x[m"],100,120
120 DATA x[m"],219.968x[gal(UK)],X[gal(UK)]=219.968*x[m"],110,130
130 DATA x[in"],16.3871x[cm"],X[cm"]=16.3871*x[in"],120,140
140 DATA x[in"],0.0000163871x[m"],X[m"]=1.63871E-5*x[in"],130,150
150 DATA x[in"],0.000578704x[ft"],X[ft"]=.000578704*x[in"],140,160
160 DATA x[in"],0.0163871x[l],X[l]=.0163871*x[in"],150,170
170 DATA x[in"],0.00432900x[gal(US)],X[gal(US)]=.004329*x[in"],160,180
180 DATA x[in"],0.00360464x[gal(UK)],X[gal(UK)]=.00360464*x[in"],170,190
190 DATA x[ft"],28316.8x[cm"],X[cm"]=28316.8*x[ft"],180,200
200 DATA x[ft"],0.0283168x[m"],X[m"]=.0283168*x[ft"],190,210
210 DATA x[ft"],1728x[in"],X[in"]=1728*x[ft"],200,220
220 DATA x[ft"],28.3168x[l],X[l]=28.3168*x[ft"],210,230
230 DATA x[ft"],7.48052x[gal(US)],X[gal(US)]=7.48052*x[ft"],220,240
240 DATA x[ft"],6.22882x[gal(UK)],X[gal(UK)]=6.22882*x[ft"],230,250
250 DATA x[l],1000x[cm"],X[cm"]=1E3*x[l],240,260
260 DATA x[l],0.001x[m"],X[m"]=.001*x[l],250,270
270 DATA x[l],61.0237x[in"],X[in"]=61.0237*x[l],260,280
280 DATA x[l],0.0353147x[ft"],X[ft"]=.0353147*x[l],270,290
290 DATA x[l],0.264172x[gal(US)],X[gal(US)]=.264172*x[l],280,300
300 DATA x[l],0.219968x[gal(UK)],X[gal(UK)]=.219968*x[l],290,300
310 DATA x[gal(US)],3785.41x[cm"],X[cm"]=3785.41*x[gal(US)],300,320
320 DATA x[gal(US)],0.00378541x[m"],X[m"]=.00378541*x[gal(US)],310,330
330 DATA x[gal(US)],231x[in"],X[in"]=231*x[gal(US)],320,340
340 DATA x[gal(US)],0.133681x[ft"],X[ft"]=.133681*x[gal(US)],330,350
350 DATA x[gal(US)],3.78541x[l],X[l]=3.78541*x[gal(US)],340,360
360 DATA x[gal(US)],0.832672x[gal(UK)],X[gal(UK)]=0.832672*x[gal(US)],350,370
370 DATA x[gal(UK)],4546.09x[cm"],X[cm"]=4546.09*x[gal(UK)],360,380
380 DATA x[gal(UK)],0.00454609x[m"],X[m"]=.00454609*x[gal(UK)],370,390
390 DATA x[gal(UK)],277.42x[in"],X[in"]=277.42*x[gal(UK)],380,400
400 DATA x[gal(UK)],0.160544x[ft"],X[ft"]=.160544*x[gal(UK)],390,410
410 DATA x[gal(UK)],4.54609x[l],X[l]=4.54609*x[gal(UK)],400,420
420 DATA x[gal(UK)],1.20095x[gal(US)],X[gal(US)]=1.20095*x[gal(UK)],410,420
10010 MODE 8:DIM:x=10:y=300:r=x
10050 p$="Metric conversion (volume)"
10110 RESTORE(r)
10120 READ m$,n$,s$,b,c
10130 l$=["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT p$;TAB(1);l$;m$;" -æ ";n$;:LOCATE 0,0:LOCATE 0,1
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF z=31 AND r<>c THEN r=c:GOTO 10110
10210 IF z=13 THEN CALC$=s$:CALCJMP
10280 GOTO 10150

```

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Programa 5980

```

5 GOTO 10010
10 DATA x[g],0.001x[Kg],X[Kg]=.001*x[g],10,20
20 DATA x[g],0.0352740x[oz],X[oz]=.035274*x[g],10,30
30 DATA x[g],0.00220462x[lb],X[lb]=.00220462*x[g],20,40
40 DATA x[Kg],1000x[g],X[g]=1E3*x[Kg],30,50
50 DATA x[Kg],35.2740x[oz],X[oz]=35.274*x[Kg],40,60
60 DATA x[Kg],2.20462x[lb],X[lb]=2.20462*x[Kg],50,70
70 DATA x[oz],28.3495x[g],X[g]=28.3495*x[oz],60,80
80 DATA x[oz],0.0283495x[Kg],X[Kg]=.0283495*x[oz],70,90
90 DATA x[oz],0.0625x[lb],X[lb]=.0625*x[oz],80,100
100 DATA x[lb],453.59237x[g],X[g]=453.59237*x[lb],90,110
110 DATA x[lb],0.45359237x[Kg],X[Kg]=.45359237*x[lb],100,120
120 DATA x[lb],16x[oz],X[oz]=16*x[lb],110,120
10010 MODE 8:DIM:x=10:y=120:r=x
10050 p$="Metric conversion (weight)"
10110 RESTORE(r)
10120 READ m$,n$,s$,b,c
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT p$;TAB(1);l$;m$;" -a ";n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF z=31 AND r<>c THEN r=c:GOTO 10110
10210 IF z=13 THEN CALC$s$:CALCJMP
10280 GOTO 10150

```

Programa 6210

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):x=0
20 CLS:PRINT "Upper probability N(0,1)";
30 LOCATE 0,1:PRINT c$;"x=";x;"?";:INPUT @10;x:LOCATE 0,0
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6210":GOSUB 500:IF sr THEN *
75 IF p THEN p=ROUND(p,LOG(ABS p)-6)
80 PRINT c$;"p=";p;:z$=INPUT$(1,@):GOTO 30
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=30 THEN RESUME 30
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6220

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):n=1:x=0:DEF CHR$(254)="3E02040830"
20 CLS:PRINT "Upper probability X'(x',p)";
30 z=n:s$="p":GOSUB 400:n=z:IF n<0 OR FRAC n<>0 THEN 30
40 z=x:s$="x'":GOSUB 400:x=z
60 LOCATE 0,1:PRINT c$;".....";

```

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```

70 sr=0:GOSUB "LIB0:S6220":GOSUB 500:IF sr THEN *
75 IF p THEN p=ROUND(p,LOG(ABS p)-6)
80 PRINT c$;"p=";p;:z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6230

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):n=1:x=0:DEF CHR$(254)="3E02040830"
20 CLS:PRINT "Upper probability t(x,p)";
30 z=n:s$="p":GOSUB 400:n=z:IF n<0 OR FRAC n<>0 THEN 30
40 z=x:s$="x":GOSUB 400:x=z
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6230":GOSUB 500:IF sr THEN *
75 IF p THEN p=ROUND(p,LOG(ABS p)-6)
80 PRINT c$;"p=";p;:z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6240

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):n=1:m=1:x=0:DEF CHR$(254)="3E02040830":DEF
CHR$(252)="123E020000":DEF CHR$(253)="2E2A3A0000"
20 CLS:PRINT "Upper probability F(x,pü,py)";
30 z=n:s$="pü":GOSUB 400:n=z:IF n<0 OR FRAC n<>0 THEN 30
40 z=m:s$="py":GOSUB 400:m=z:IF m<0 OR FRAC m<>0 THEN 40
50 z=x:s$="x":GOSUB 400:x=z
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6240":GOSUB 500:IF sr THEN *
75 IF p THEN p=ROUND(p,LOG(ABS p)-6)
80 PRINT c$;"p=";p;:z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6310

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):x=0:n=2:p=0
20 CLS:PRINT "Cumulative frequency B(x,n,P)";
30 z=n:s$="n":GOSUB 400:n=z:IF n<0 OR FRAC n<>0 THEN 30
40 z=p:s$="P":GOSUB 400:p=z:IF p<0 OR p>1 THEN 40

```

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```

50 z=x:s$="x":GOSUB 400:x=z:IF x<0 OR x>n OR FRAC x<>0 THEN 50
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6310":GOSUB 500:IF sr THEN *
75 IF s THEN s=ROUND(s,LOG(ABS s)-6)
80 PRINT c$;"p=";s;;z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6320

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):k=0:x=0:DEF CHR$(254)="424C300806"
20 CLS:PRINT "Cumulative frequency P(x,p)";
30 z=k:s$="p":GOSUB 400:k=z:IF k<0 THEN 30
40 z=x:s$="x":GOSUB 400:x=z:IF x<0 OR FRAC x<>0 THEN 40
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6320":GOSUB 500:IF sr THEN *
75 IF s THEN s=ROUND(s,LOG(ABS s)-6)
80 PRINT c$;"p=";s;;z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6330

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):m=2:k=1:n=1:x=0
20 CLS:PRINT "Cumulative frequency H(x,n,M,N)";
30 z=m:s$="N":GOSUB 400:m=z:IF m<2 THEN 30
40 z=k:s$="M":GOSUB 400:k=z:IF k>m THEN 40
50 z=n:s$="n":GOSUB 400:n=z:IF n>m-k THEN 50
60 z=x:s$="x":GOSUB 400:x=z:IF x>n OR x>k THEN 60
65 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6330":GOSUB 500:IF sr THEN *
75 IF s THEN s=ROUND(s,LOG(ABS s)-6)
80 PRINT c$;"p=";s;;z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:IF z<0 OR FRAC
z<>0 THEN 400 ELSE RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6410

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):p=0

```

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```

20 CLS:PRINT "Percentage points  N(0,1)";
30 LOCATE 0,1:PRINT c$;"p=";p;"?";:INPUT @10;p:LOCATE 0,0:IF p<0 OR p>=1 THEN
30
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6410":GOSUB 500:IF sr THEN *
75 IF x THEN x=ROUND(x,LOG(ABS x)-6)
80 PRINT c$;"x=";x;:z$=INPUT$(1,@):GOTO 30
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=30 THEN RESUME 30
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6420

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):n=1:p=0:DEF CHR$(254)="3E02040830"
20 CLS:PRINT "Percentage points  X'(x',b)";
30 z=n:s$="p":GOSUB 400:n=z:IF n<0 OR FRAC n<>0 THEN 30
40 z=p:s$="p":GOSUB 400:p=z:IF p<0 OR p>1 THEN 40
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6420":GOSUB 500:IF sr THEN *
75 IF x THEN x=ROUND(x,LOG(ABS x)-6)
80 PRINT c$;"x'=";x;:z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6430

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):n=1:p=0:DEF CHR$(254)="3E02040830"
20 CLS:PRINT "Percentage points  t(x,b)";
30 z=n:s$="p":GOSUB 400:n=z:IF n<0 OR FRAC n<>0 THEN 30
40 z=p:s$="p":GOSUB 400:p=z:IF p<0 OR p>=1 THEN 40
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6430":GOSUB 500:IF sr THEN *
75 IF x THEN x=ROUND(x,LOG(ABS x)-6)
80 PRINT c$;"x=";x;:z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6440

```

10 MODE 8:DIM:GOSUB 500:c$=CHR$(5):n=1:m=1:p=0:DEF CHR$(254)="3E02040830":DEF
CHR$(252)="123E020000":DEF CHR$(253)="2E2A3A0000"
20 CLS:PRINT "Percentage points  F(x,pü,py)";

```

Casio FX-850P Libreria interna

```

30 z=n:s$="pü":GOSUB 400:n=z:IF n=<0 OR FRAC n<>0 THEN 30
40 z=m:s$="py":GOSUB 400:m=z:IF m=<0 OR FRAC m<>0 THEN 40
50 z=p:s$="p":GOSUB 400:p=z:IF p=<0 OR p>1 THEN 50
60 LOCATE 0,1:PRINT c$;".....";
70 sr=0:GOSUB "LIB0:S6440":GOSUB 500:IF sr THEN *
75 IF x THEN x=ROUND(x,LOG(ABS x)-6)
80 PRINT c$;"x=";x;;z$=INPUT$(1,@):GOTO 30
400 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
500 ON ERROR GOTO 510:RETURN
510 IF ERR=1 THEN CLS:ON ERROR GOTO 0
520 IF ERL=400 THEN RESUME 400
530 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6450

```

10 MODE 8:DIM:CLS:ANGLE 1
20 x=RAN#(1):IF x=0 THEN 20
25 y=RAN#(1):IF y=0 THEN 25
30 x=SQR(-2*LN x):y=2*PI*y
40 z=x*COS y:GOSUB 60
50 z=x*SIN y:GOSUB 60:GOTO 20
60 PRINT TAB(0);z;;z$=INPUT$(1,@):RETURN

```

Programa 6460

```

5 ON ERROR GOTO 100
10 MODE 8:DIM:DEF CHR$(254)="424C300806":k=1
20 CLS:PRINT "E(p,t)";
30 LOCATE 0,1:PRINT CHR$(5);"p=";k;"?";:INPUT @10;k:LOCATE 0,0:LOCATE 0,1
40 x=RAN#(1):IF x=0 THEN 40
50 PRINT TAB(0);-LN x/k;;z$=INPUT$(1,@):GOTO 40
100 IF ERR=1 THEN CLS:ON ERROR GOTO 0
110 RESUME 20

```

Programa 6500

```

5 ON ERROR GOTO 1000
10 MODE 8:DIM:ERASE a,a$:DIM a(5),a$(1):a$(1)="Input":a$(0)="Delete":c$=CHR$(5)
20 CLS:PRINT "Statistics [x]";TAB(0);">In,Del,Clear,List,T-score,P ?";
30 a=ASC(INPUT$(1)):IF a>96 THEN a=a-32
40 ON a-66 GOTO 300,100,,,,100,,,500,,,,800,,,,400
50 GOTO 30
100 CLS:PRINT a$(SGN(a-68));" data (x)";TAB(21);"[EXE]:menu";:z=SGN(a-69)
110 LOCATE 0,1:PRINT c$;"x?";
120 LOCATE 2,1:INPUT @12;z$:LOCATE 0,0:IF z$="" THEN 20 ELSE x=VALF(z$)
150 r=sa+z:s=sb+x*z:u=sd+x*x*z
160 sa=r:sb=s:sd=u:GOTO 110
200 c=6
210 sg=sb/sa

```

Casio FX-850P Libreria interna

```

220 sm=sd-sg*sb:IF sm<0 THEN sm=0
250 si=SQR(sm/sa)
260 sk=SQR(sm/(sa-1))
280 RETURN
300 PRINT c$;"clear data (Y/N) ?";
310 a$=INPUT$(1,@):IF a$<>"Y" AND a$<>"y" THEN 20
320 sa=0:sb=0:sd=0:GOTO 20
400 GOSUB 200:IF c<6 OR si=0 THEN 20
430 LOCATE 0,1:PRINT c$;"x?";:INPUT @10;z$:LOCATE 0,0:IF z$="" THEN 20 ELSE
s=VALF(z$)
440 LOCATE 12,1:PRINT ":T=";ROUND((s-sg)/si*10+50,-2);:z$=INPUT$(1,@):GOTO 430
500 CLS:GOSUB 200:GOSUB 580:i=1:GOSUB 600:i=2
510 GOSUB 600
520 z=ASC(INPUT$(1,@)):IF z=28 OR z=29 THEN 20
530 IF z<>13 AND z<>30 AND z<>31 THEN 520
540 IF (z=30 AND i=1) OR (z=31 AND i=c) THEN 520
550 IF z=30 THEN i=i-2
560 i=i+1:IF i<c THEN 510 ELSE 20
580 DEF CHR$(254)="0808003E00"
590 a(0)=sa:a(1)=sb:a(2)=sd:a(3)=sg:a(4)=si:a(5)=sk:RETURN
600 RESTORE(600+i*10):READ a$,b$:PRINT
TAB(0);a$;TAB(7);":":b$;TAB(13);"=";a(i-1);:RETURN
610 DATA CNT,n
620 DATA SUMX,,x
630 DATA SUMX2,,x'
640 DATA MEANX,,x/n
650 DATA SDXN,xŽn
660 DATA SDX,xŽnþ
800 LOCATE 0,1:PRINT c$;".....";:GOSUB 200:GOSUB 590:RESTORE 610
810 FOR i=1 TO c:READ a$,b$:LPRINT a$;TAB(10);"=";a(i-1):NEXT:GOTO 20
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=120 THEN RESUME 120
1030 IF ERL=430 THEN RESUME 430
1050 IF ERL=210 THEN c=3:RESUME 280
1060 IF ERL=260 THEN c=5:RESUME 280
1080 IF ERL=150 THEN LOCATE 0,1:PRINT c$;"data over";:z$=INPUT$(1,@):RESUME 20
1090 LOCATE 0,1:PRINT c$;"not found";:a$=INPUT$(1,@):RESUME 20

```

Programa 6510

```
10 sq=0:GOTO "LIB0:M6510"
```

Programa 6520

```
10 sq=1:GOTO "LIB0:M6510"
```

Programa 6530

```
10 sq=2:GOTO "LIB0:M6510"
```

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Programa 6540

```
10 sq=3:GOTO "LIB0:M6510"
```

Programa 6610

```
10 MODE 8:DIM:GOSUB 900:c$=CHR$(5):DEF CHR$(254)="A2A49C92A2":t$="N(,Ž') a<<b
Ž':known"
20 CLS:PRINT t$;TAB(0);"input new data (Y/N) ?";:a$=INPUT$(1,@)
25 IF a$<>"Y" AND a$<>"y" THEN 40
30 s$="x":GOSUB "LIB0:S6020":GOSUB 900
40 t=0:f=95:r=sa:IF r THEN s=sg ELSE s=0
45 CLS:PRINT t$;
50 z=r:s$="n":GOSUB 500:r=z
60 z=s:s$="p":GOSUB 500:s=z
80 z=t:s$="Ž":GOSUB 500:t=z
90 CLS:PRINT "Confidence level (1-^)[%]";
95 z=f:s$="1-^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT "N(,Ž') ";f;"%";TAB(0);".....";
100 p=(1-f/100)/2:sr=0:GOSUB "LIB0:S6410":GOSUB 900:IF sr THEN *
110 z=s-x*t/SQR r:GOSUB 400:a=z
120 z=s+x*t/SQR r:GOSUB 400:b=z
130 PRINT c$;a;"< <";b;:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20
```

Programa 6620

```
10 MODE 8:DIM:GOSUB 900:c$=CHR$(5):DEF CHR$(254)="A2A49C92A2":t$="N(,Ž') a<<b"
20 CLS:PRINT t$;TAB(0);"input new data (Y/N) ?";:a$=INPUT$(1,@)
25 IF a$<>"Y" AND a$<>"y" THEN 40
30 s$="x":GOSUB "LIB0:S6020":GOSUB 900
40 f=95:r=sa:IF r THEN s=sg:t=sk^2 ELSE s=0:t=0
45 CLS:PRINT t$;
50 z=r:s$="n":GOSUB 500:r=z
60 z=s:s$="p":GOSUB 500:s=z
80 z=t:s$="V":GOSUB 500:t=z
90 CLS:PRINT "Confidence level (1-^)[%]";
95 z=f:s$="1-^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT "N(,Ž') ";f;"%";TAB(0);".....";
100 n=r-1:p=(1-f/100)/2:sr=0:GOSUB "LIB0:S6430":GOSUB 900:IF sr THEN *
110 z=s-x*SQR(t/r):GOSUB 400:a=z
120 z=s+x*SQR(t/r):GOSUB 400:b=z
```

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```

130 PRINT c$a;"< <">b;a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$s$;"=">z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6630

```

10 MODE 8:DIM:GOSUB 900:c$=CHR$(5):t$="N(,Ž') a<Ž'<b"
20 CLS:PRINT t$;TAB(0);"input new data (Y/N) ?";:a$=INPUT$(1,@)
25 IF a$<>"Y" AND a$<>"y" THEN 40
30 s$="x":GOSUB "LIB0:S6020":GOSUB 900
40 f=95:s=sa:IF s THEN r=sm ELSE r=0
45 CLS:PRINT t$;
50 z=s:s$="n":GOSUB 500:s=z
60 z=r:s$="S":GOSUB 500:r=z
90 CLS:PRINT "Confidence level (1-^)[%]";
95 z=f:s$="1-^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT "N(,Ž') ";f;"%";TAB(0);".....";
100 n=s-1:p=(1-f/100)/2:sr=0:GOSUB "LIB0:S6420":GOSUB 900:IF sr THEN *
105 g=x:p=1-p:GOSUB "LIB0:S6420":GOSUB 900:IF sr THEN *
110 z=r/g:GOSUB 400:a=z
120 z=r/x:GOSUB 400:b=z
130 PRINT c$a;"< Ž' <">b;a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$s$;"=">z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6640

```

10 MODE 8:DIM:GOSUB 900:c$=CHR$(5):t$="N(,Ž') a<Ž'<b"
20 CLS:PRINT t$;TAB(0);"input new data (Y/N) ?";:a$=INPUT$(1,@)
25 IF a$<>"Y" AND a$<>"y" THEN 40
30 s$="x":GOSUB "LIB0:S6020":GOSUB 900
40 f=95:s=sa:IF s THEN r=sm ELSE r=0
45 CLS:PRINT t$;
50 z=s:s$="n":GOSUB 500:s=z
60 z=r:s$="S":GOSUB 500:r=z
90 CLS:PRINT "Confidence level (1-^)[%]";
95 z=f:s$="1-^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT "N(,Ž') ";f;"%";TAB(0);".....";
100 n=s-1:p=(1-f/100)/2:sr=0:GOSUB "LIB0:S6420":GOSUB 900:IF sr THEN *
105 g=x:p=1-p:GOSUB "LIB0:S6420":GOSUB 900:IF sr THEN *

```

Casio FX-850P Libreria interna

```

110 z=SQR(r/g):GOSUB 400:a=z
120 z=SQR(r/x):GOSUB 400:b=z
130 PRINT c$;a;"< Ž <";b;:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6650

```

10 MODE 8:DIM:GOSUB 900:c$=CHR$(5):DEF CHR$(252)="123E020000":DEF
CHR$(253)="2E2A3A0000":t$="N(ü,Žü'),N(ý,Žý') a<Žý'/Žü'<b"
20 CLS:PRINT t$;TAB(0);"input new data xü (Y/N) ?";:a$=INPUT$(1,@)
22 IF a$<>"Y" AND a$<>"y" THEN 30
25 s$="xü":GOSUB "LIB0:S6020":GOSUB 900
30 CLS:PRINT t$;TAB(0);"input new data xy (Y/N) ?";:a$=INPUT$(1,@)
32 IF a$<>"Y" AND a$<>"y" THEN 36
35 s$="xy":GOSUB "LIB0:S6030":GOSUB 900
36 s=sa:IF s>1 THEN r=sk^2 ELSE r=0
37 f=95:u=sz:IF u>1 THEN t=s1^2 ELSE t=0
45 CLS:PRINT t$;
50 z=s:s$="nü":GOSUB 500:s=z
60 z=r:s$="Vü":GOSUB 500:r=z
70 z=u:s$="ný":GOSUB 500:u=z
80 z=t:s$="Vý":GOSUB 500:t=z
90 CLS:PRINT "Confidence level (1-^)[%]";
95 z=f:s$="1-^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT "N(ü,Žü'),N(ý,Žý') ";f;"%";TAB(0);".....";
100 n=s-1:m=u-1:p=(1-f/100)/2:sr=0:GOSUB "LIB0:S6440":GOSUB 900:IF sr THEN *
105 g=x:n=m:m=s-1:GOSUB "LIB0:S6440":GOSUB 900:IF sr THEN *
110 z=t/r/x:GOSUB 400:a=z
120 z=t/r*g:GOSUB 400:b=z
130 PRINT c$;a;"< Žý'/Žü' <";b;:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6660

```

10 MODE 8:DIM:GOSUB 900:c$=CHR$(5):DEF CHR$(252)="123E020000":DEF
CHR$(253)="2E2A3A0000":DEF CHR$(254)="A2A49C92A2":t$="N(ü,Ž'),N(ý,Ž') a<ü-ý<b"
20 CLS:PRINT t$;TAB(0);"input new data xü (Y/N) ?";:a$=INPUT$(1,@)
22 IF a$<>"Y" AND a$<>"y" THEN 30

```

Casio FX-850P Libreria interna

```

25 s$="xü":GOSUB "LIB0:S6020":GOSUB 900
30 CLS:PRINT t$;TAB(0);"input new data xy (Y/N) ?";a$=INPUT$(1,@)
32 IF a$<>"Y" AND a$<>"y" THEN 36
35 s$="xy":GOSUB "LIB0:S6030":GOSUB 900
36 r=sa:IF r>1 THEN s=sg:t=sm ELSE s=0:t=0
37 f=95:u=sz:IF u>1 THEN v=sh:w=sn ELSE v=0:w=0
45 CLS:PRINT t$;
50 z=r:s$="nü":GOSUB 500:r=z
55 z=s:s$="pü":GOSUB 500:s=z
60 z=t:s$="Sü":GOSUB 500:t=z
70 z=u:s$="ny":GOSUB 500:u=z
75 z=v:s$="py":GOSUB 500:v=z
80 z=w:s$="Sy":GOSUB 500:w=z
90 CLS:PRINT "Confidence level (1-^)[%]";
95 z=f:s$="1-^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT "N(ü,Ž'),N(y,Ž') ";f;"%";TAB(0);".....";
100 n=r+u-2:p=(1-f/100)/2:sr=0:GOSUB "LIB0:S6430":GOSUB 900:IF sr THEN *
110 z=s-v-x*SQR((1/r+1/u)*((t+w)/n)):GOSUB 400:a=z
120 z=s-v+x*SQR((1/r+1/u)*((t+w)/n)):GOSUB 400:b=z
130 PRINT c$;a;"< ü-y <";b;:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa 6670

```

10 MODE 8:DIM:GOSUB 900:c$=CHR$(5):f=95:r=0:s=0
45 CLS:PRINT "B(1,p) a<p<b";
50 z=r:s$="n":GOSUB 500:r=z
60 z=s:s$=",,x":GOSUB 500:s=z
90 CLS:PRINT "Confidence level (1-^)[%]";
95 z=f:s$="1-^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT "B(1,p) ";f;"%";TAB(0);".....";
100 p=(1-f/100)/2:sr=0:GOSUB "LIB0:S6410":GOSUB 900:IF sr THEN *
110 e=s/r:z=e-x*SQR(((1-e)*e)/r):GOSUB 400:a=z
120 z=e+x*SQR(((1-e)*e)/r):GOSUB 400:b=z
130 PRINT c$;a;"< p <";b;:a$=INPUT$(1,@):GOTO 45
140 GOTO 50
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 45

```

Casio FX-850P Libreria interna

Programa 6680

```

10 MODE 8:DIM:GOSUB 900:c$=CHR$(5):f=95:DEF CHR$(252)="123E020000":DEF
CHR$(253)="2E2A3A0000":r=0:s=0:t=0:u=0
45 CLS:PRINT "B(1,pü),B(1,pý) a<pü-pý<b";
50 z=r:s$="nü":GOSUB 500:r=z
60 z=s:s$=",,xü":GOSUB 500:s=z
70 z=t:s$="ný":GOSUB 500:t=z
80 z=u:s$=",,xý":GOSUB 500:u=z
90 CLS:PRINT "Confidence level (1-^[%]";
95 z=f:s$="1-^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT "B(1,pü),B(1,pý) ";f;"%";TAB(0);".....";
100 p=(1-f/100)/2:sr=0:GOSUB "LIB0:S6410":GOSUB 900:IF sr THEN *
110 j=s/r:k=u/t:z=j-k-x*SQR(((1-j)*j)/r+((1-k)*k)/t):GOSUB 400:a=z
120 z=j-k+x*SQR(((1-j)*j)/r+((1-k)*k)/t):GOSUB 400:b=z
130 PRINT c$;a;"< pü-pý <";b;:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 45

```

Programa 6710

```

10 sq=226:GOSUB "LIB0:M6710"

```

Programa 6711

```

10 sq=62:GOSUB "LIB0:M6710"

```

Programa 6712

```

10 sq=60:GOSUB "LIB0:M6710"

```

Programa 6720

```

10 sq=226:GOSUB "LIB0:M6720"

```

Programa 6721

```

10 sq=62:GOSUB "LIB0:M6720"

```

Programa 6722

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10 sq=60:GOSUB "LIB0:M6720"

Programa 6730

10 sq=226:GOSUB "LIB0:M6730"

Programa 6731

10 sq=62:GOSUB "LIB0:M6730"

Programa 6732

10 sq=60:GOSUB "LIB0:M6730"

Programa 6740

10 sq=226:GOSUB "LIB0:M6740"

Programa 6741

10 sq=62:GOSUB "LIB0:M6740"

Programa 6742

10 sq=60:GOSUB "LIB0:M6740"

Programa 6750

10 sq=226:GOSUB "LIB0:M6750"

Programa 6751

10 sq=62:GOSUB "LIB0:M6750"

Programa 6752

10 sq=60:GOSUB "LIB0:M6750"

Programa 6760

10 sq=226:GOSUB "LIB0:M6760"

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Programa 6761

10 sq=62:GOSUB "LIB0:M6760"

Programa 6762

10 sq=60:GOSUB "LIB0:M6760"

Programa 6770

10 sq=226:GOSUB "LIB0:M6770"

Programa 6771

10 sq=62:GOSUB "LIB0:M6770"

Programa 6772

10 sq=60:GOSUB "LIB0:M6770"

Programa K0630

10 CLS:GOTO 10000

1000 DATA "Memory calculations	[MC],[MR],[M-],[M+]",,1000,5010
5010 DATA "Prime factors	Base = a * b * c * ¥¥¥",,1000,5020
5020 DATA "G.C.M. & L.C.M.",,	5010,5040
5040 DATA "ax ¹ +bx ² +cx ³ +¥¥¥=y",,	5020,5050
5050 DATA "ax'+bx+c=0",,	5040,5060
5060 DATA "ax"+bx'+cx+d=0",,	5050,5080
5080 DATA "Numerical solution f(x)=0	Newton's method",,5060,5090
5090 DATA "Numerical solution f(x)=0	Method of bisection",,5080,5100
5100 DATA "Matrix operations",,	5090,5200
5200 DATA "f(x)dx [a,b]	Romberg's method",,5100,5220
5220 DATA "dy/dx=f(x,y(x))	Runge-Kutta method",,5200,5230
5230 DATA "Lagrange's interpolation",,	5220,5250
5250 DATA "Gamma function $\gamma(x)$ ",	82FE8280C0,5230,5260
5260 DATA "Bessel function J _n (x)",,	5250,5270
5270 DATA "Bessel function Y _n (x)",,	5260,5280
5280 DATA "Modified Bessel function	I _n (x)",,5270,5290
5290 DATA "Modified Bessel function	Kn(x)",,5280,5300
5300 DATA "Complex number a+bi",,	5290,5350
5350 DATA "Binary-Decimal-Hexadecimal",,	5300,5510
5510 DATA "y=ax+b ä- (x ₁ ,y ₁),(x ₂ ,y ₂)",,	5350,5520
5520 DATA "Angle(∠) ä- y=ax+b,y=cx+d",,	5510,5530
5530 DATA "Distance ä- y=ax+b,(x ₁ ,y ₁)",,	5520,5540
5540 DATA "(X,Y) ä- (x,y),angle(∠)",,	5530,5550

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5550 DATA	"Circle (x-a)'+(y-b)'=r' (x1,y1),(x2,y2),(x3,y3)"	,,5540,5560	ä-
5560 DATA	"Length(y=cx+d) (x-a)'+(y-b)'=r',(x1,y1)"	,,5550,5570	ä
5570 DATA	"y=cx+d,y=ex+f (x-a)'+(y-b)'=r',(x1,y1)"	,,5560,5600	ä
5600 DATA	"Area (triangle)"	,,5570,5605	
5605 DATA	"Area (trapezoid)"	,,5600,5610	
5610 DATA	"Area (parallelogram)"	,,5605,5615	
5615 DATA	"Area (circle)"	,,5610,5620	
5620 DATA	"Area (sector)"	,,5615,5625	
5625 DATA	"Area (segment)"	,,5620,5630	
5630 DATA	"Area (ellipse)"	,,5625,5635	
5635 DATA	"Area (polygon)"	,,5630,5650	
5650 DATA	"Surface (sphere)"	,,5635,5655	
5655 DATA	"Surface (zone of sphere)"	,,5650,5660	
5660 DATA	"Surface (spherical sector)"	,,5655,5665	
5665 DATA	"Surface (circular cylinder)"	,,5660,5670	
5670 DATA	"Surface (circular cone)"	,,5665,5675	
5675 DATA	"Surface cone)"	,,5670,5700	(frustum of circular
5700 DATA	"Volume (sphere)"	,,5675,5705	
5705 DATA	"Volume (zone of sphere)"	,,5700,5710	
5710 DATA	"Volume (spherical sector)"	,,5705,5715	
5715 DATA	"Volume (circular cylinder)"	,,5710,5720	
5720 DATA	"Volume (circular cone)"	,,5715,5725	
5725 DATA	"Volume cone)"	,,5720,5730	(frustum of circular
5730 DATA	"Volume (wedge)"	,,5725,5735	
5735 DATA	"Volume (pyramid)"	,,5730,5740	
5740 DATA	"Volume pyramid)"	,,5735,5745	(frustum of pyramid)"
5745 DATA	"Volume (ellipsoid)"	,,5740,5750	
5750 DATA	"Polygon A,n -æ r,R,l"	,,5745,5760	
5760 DATA	"Polyhedron (a,r,R,S,V)"	,,5750,5800	
5800 DATA	"Factorization	a'+2ab+b'=(a+b)'"	,,5760,5810
5810 DATA	"Trigonometric function	sin'Æ+cos'Æ=1"	,,5800,5820
5820 DATA	"Differential	y=ax'+bx+c æ yf=2ax+b"	,,5810,5830
5830 DATA	"Integration	x dx = 1/2x'+C"	,,5820,5840
5840 DATA	"Laplace transformation	F(p)=1/p æ f(t)=1"	,,5830,5900
5900 DATA	"Periodic table 1.00794"	H Hydrogen 1(1-1a)	,,5840,5910
5910 DATA	"Scientific constant	g=9.80665 [m/s²]"	,,5900,5920
5920 DATA	"Electrolytic dissociation	HCOOH äæ HCOO> + Hš"	,,5910,5930
5930 DATA	"Motion	Ek=1/2mv'"	,,5920,5932
5932 DATA	"Waves	f=fû¥(v-vü)/(v-vý)"	,,5930,5934
5934 DATA	"AC & DC circuits	R=Rü+Rý , 1/R=1/Rü+1/Rý"	,,5932,5936
5936 DATA	"Electric & Magnetic fields	Q=CV , C=û¥S/d"	,,5934,5938
5938 DATA	"Thermodynamics and others	W=JQ , J=4.19 [J/cal]"	,,5936,5950
5950 DATA	"Metric conversion (length)	1[cm] -æ 0.01[m]"	,,5938,5960
5960 DATA	"Metric conversion (area)	1[cm²] -æ 0.0001[m²]"	,,5950,5970
5970 DATA	"Metric conversion (volume)	1[cm³] -æ 0.000001[m³]"	,,5960,5980
5980 DATA	"Metric conversion (weight)	1[g] -æ 0.001[kg]"	,,5970,6210

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6210 DATA "Upper probability integrals $N(0,1')$ ", ,5980,6220
6220 DATA "Upper probability integrals $X'(x',\beta)$ ", ,6210,6230
6230 DATA "Upper probability integrals $t(x,\beta)$ ", ,6220,6240
6240 DATA "Upper probability integrals $F(x,\beta\grave{u},\beta\acute{y})$ ", ,6230,6310
6310 DATA "Upper cumulative frequencies $B(x,n,P)$ ", ,6240,6320
6320 DATA "Upper cumulative frequencies
 $P(x,\acute{y})$ ", ,424C300806,6310,6330
6330 DATA "Upper cumulative frequencies
 $H(x,n,M,N)$ ", ,6320,6410
6410 DATA "Percentage points $N(0,1')$ ", ,6330,6420
6420 DATA "Percentage points $X'(x',\beta)$ ", ,6410,6430
6430 DATA "Percentage points $t(x,\beta)$ ", ,6420,6440
6440 DATA "Percentage points $F(x,\beta\grave{u},\beta\acute{y})$ ", ,6430,6450
6450 DATA "Normal random numbers", ,6440,6460
6460 DATA "Exponential random numbers", ,6450,6500
6500 DATA "Statistics [x]", ,6460,6510
6510 DATA "Regression analysis $[y=a+bx]$ ", ,6500,6520
6520 DATA "Regression analysis $[y=a+b\ln x]$ ", ,6510,6530
6530 DATA "Regression analysis $[y=ab^x]$ ", ,6520,6540
6540 DATA "Regression analysis $[y=ax^b]$ ", ,6530,6610
6610 DATA "Estimation $a << b$ $N(\acute{z}') \acute{z}':\text{known}$ ", ,6540,6620
6620 DATA "Estimation $a << b$ $N(\acute{z}')$ ", ,6610,6630
6630 DATA "Estimation $a < \acute{z}' < b$ $N(\acute{z}')$ ", ,6620,6640
6640 DATA "Estimation $a < \acute{z}' < b$ $N(\acute{z}')$ ", ,6630,6650
6650 DATA "Estimation $a < \acute{z}' / \acute{z}\grave{u}' < b$ $N(\grave{u}, \acute{z}\grave{u}'), N(\acute{y}, \acute{z}\acute{y}')$ ", ,6640,6660
6660 DATA "Estimation $a < \grave{u} - \acute{y} < b$ $N(\grave{u}, \acute{z}'), N(\acute{y}, \acute{z}')$ ", ,6650,6670
6670 DATA "Estimation $a < p < b$ $B(1,p)$ ", ,6660,6680
6680 DATA "Estimation $a < p\grave{u} - p\acute{y} < b$ $B(1,p\grave{u}), B(1,p\acute{y})$ ", ,6670,6710
6710 DATA "Test $N(\acute{z}') \acute{z}':\text{known}$ $H\grave{u}:=\grave{u}$ $H\grave{u}:\hat{a}\grave{u}$ ", ,6680,6711
6711 DATA "Test $N(\acute{z}') \acute{z}':\text{known}$ $H\grave{u}:=\grave{u}$ $H\grave{u}:\hat{>}\grave{u}$ ", ,6710,6712
6712 DATA "Test $N(\acute{z}') \acute{z}':\text{known}$ $H\grave{u}:=\grave{u}$ $H\grave{u}:\hat{<}\grave{u}$ ", ,6711,6720
6720 DATA "Test $N(\acute{z}')$ $H\grave{u}:=\grave{u}$ $H\grave{u}:\hat{a}\grave{u}$ ", ,6712,6721
6721 DATA "Test $N(\acute{z}')$ $H\grave{u}:=\grave{u}$ $H\grave{u}:\hat{>}\grave{u}$ ", ,6720,6722
6722 DATA "Test $N(\acute{z}')$ $H\grave{u}:=\grave{u}$ $H\grave{u}:\hat{<}\grave{u}$ ", ,6721,6730
6730 DATA "Test $N(\acute{z}')$ $H\grave{u}:\acute{z}'=\acute{z}\grave{u}'$ $H\grave{u}:\acute{z}'\hat{a}\acute{z}\grave{u}'$ ", ,6722,6731
6731 DATA "Test $N(\acute{z}')$ $H\grave{u}:\acute{z}'=\acute{z}\grave{u}'$ $H\grave{u}:\acute{z}'\hat{>}\acute{z}\grave{u}'$ ", ,6730,6732
6732 DATA "Test $N(\acute{z}')$ $H\grave{u}:\acute{z}'=\acute{z}\grave{u}'$ $H\grave{u}:\acute{z}'\hat{<}\acute{z}\grave{u}'$ ", ,6731,6740
6740 DATA "Test $N(\grave{u}, \acute{z}\grave{u}'), N(\acute{y}, \acute{z}\acute{y}')$ $H\grave{u}:\acute{z}\grave{u}'=\acute{z}\acute{y}'$ $H\grave{u}:\acute{z}\grave{u}'\hat{a}\acute{z}\acute{y}'$ ", ,6732,6741
6741 DATA "Test $N(\grave{u}, \acute{z}\grave{u}'), N(\acute{y}, \acute{z}\acute{y}')$ $H\grave{u}:\acute{z}\grave{u}'=\acute{z}\acute{y}'$ $H\grave{u}:\acute{z}\grave{u}'\hat{>}\acute{z}\acute{y}'$ ", ,6740,6742
6742 DATA "Test $N(\grave{u}, \acute{z}\grave{u}'), N(\acute{y}, \acute{z}\acute{y}')$ $H\grave{u}:\acute{z}\grave{u}'=\acute{z}\acute{y}'$ $H\grave{u}:\acute{z}\grave{u}'\hat{<}\acute{z}\acute{y}'$ ", ,6741,6750
6750 DATA "Test $N(\grave{u}, \acute{z}'), N(\acute{y}, \acute{z}')$ $H\grave{u}:\grave{u}=\acute{y}$ $H\grave{u}:\grave{u}\hat{a}\acute{y}$ ", ,6742,6751
6751 DATA "Test $N(\grave{u}, \acute{z}'), N(\acute{y}, \acute{z}')$ $H\grave{u}:\grave{u}=\acute{y}$ $H\grave{u}:\grave{u}\hat{>}\acute{y}$ ", ,6750,6752
6752 DATA "Test $N(\grave{u}, \acute{z}'), N(\acute{y}, \acute{z}')$ $H\grave{u}:\grave{u}=\acute{y}$ $H\grave{u}:\grave{u}\hat{<}\acute{y}$ ", ,6751,6760
6760 DATA "Test $B(1,p)$ $H\grave{u}:p=p\grave{u}$ $H\grave{u}:p\hat{a}p\grave{u}$ ", ,6752,6761
6761 DATA "Test $B(1,p)$ $H\grave{u}:p=p\grave{u}$ $H\grave{u}:p\hat{>}p\grave{u}$ ", ,6760,6762
6762 DATA "Test $B(1,p)$ $H\grave{u}:p=p\grave{u}$ $H\grave{u}:p\hat{<}p\grave{u}$ ", ,6761,6770
6770 DATA "Test $B(1,p\grave{u}), B(1,p\acute{y})$ $H\grave{u}:p\grave{u}=p\acute{y}$ $H\grave{u}:p\grave{u}\hat{a}p\acute{y}$ ", ,6762,6771
6771 DATA "Test $B(1,p\grave{u}), B(1,p\acute{y})$ $H\grave{u}:p\grave{u}=p\acute{y}$ $H\grave{u}:p\grave{u}\hat{>}p\acute{y}$ ", ,6770,6772
6772 DATA "Test $B(1,p\grave{u}), B(1,p\acute{y})$ $H\grave{u}:p\grave{u}=p\acute{y}$ $H\grave{u}:p\grave{u}\hat{<}p\acute{y}$ ", ,6771,6772
10000 ON ERROR GOTO 10400
10010 MODE 8:DIM:x=1000:y=6772
10020

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DEFSEG=0:a=PEEK(&H743)*256+PEEK(&H742):r$=HEX$(PEEK(&H744))+"000":b=VAL("&H"+r$
)
10030 DEFSEG=b:r$="":FOR i=a TO a+3:r$=r$+CHR$(PEEK(i+7)):NEXT:r=VAL(r$)
10060 DEF CHR$(254)="3E02040830"
10070 DEF CHR$(253)="2E2A3A0000"
10080 DEF CHR$(252)="123E020000"
10110 RESTORE(r)
10120 READ m$,n$,b,c
10130 IF n$<>""" THEN DEF CHR$(255)=n$
10140 CLS:PRINT MID$(STR$(r),2);":";m$;
10150 z=ASC(INPUT$(1,@))
10160 IF z=29 AND r<>x THEN a=&HF7EA:r=x:GOTO 10110
10170 IF z=28 AND r<>y THEN a=&HFEA7:r=y:GOTO 10110
10180 IF z=30 AND r<>b THEN a=a-15:r=b:GOTO 10110
10190 IF (z=31 OR z=218) AND r<>c THEN a=a+15:r=c:GOTO 10110
10200 IF z=13 OR z=252 THEN 10300
10210 GOTO 10150
10300
CLS:DEFSEG=0:a$=HEX$(a):b=VAL("&H"+LEFT$(a$,2)):c=VAL("&H"+RIGHT$(a$,2)):POKE
&H742,c:POKE &H743,b:r$="LIB0:"+MID$(STR$(r),2):GOTO r$
10400 IF ERR=1 THEN ON ERROR GOTO 0
10410 r=x:RESUME 10110

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Programa M6510

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5 ON ERROR GOTO 1000:RESTORE :MODE 8:DIM:ERASE a,a$:DIM
a(14),a$(5):c$=CHR$(5):IF sq<0 OR sq>3 OR FRAC sq<>0 THEN sq=0
12 IF tz<0 OR tz>3 OR FRAC tz<>0 THEN tz=0
14 FOR i=0 TO 5:READ a$(i):NEXT:d$="          :y?"
15 DATA y=a+bx,y=a+blnx,y=ab^x,y=ax^b,Delete,Input
20 l=21+ABS(SGN(sq-1))*2:CLS:PRINT "Regression
analysis";TAB(1);"[";a$(sq);"]";TAB(0);">In,Del,Clear,List,eoX,eoY,P ?";
30 IF INKEY$="" THEN a=ASC(INPUT$(1)):IF a>96 THEN a=a-32
40 IF a=186 THEN sq=(sq+1) MOD 4:GOTO 20
50 ON a-66GOTO 300,100,,,,100:IF (sq AND tz)=0 THEN ON a-75GOTO
500,,,,800,,,,,,400,450
60 GOTO 30
100 CLS:PRINT a$(SGN(a-68)+4);" data (x,y)";TAB(21);"[EXE]:menu";:z=SGN(a-69)
110 LOCATE 0,1:PRINT c$;"x?";d$;
120 LOCATE 2,1:INPUT @12;z$:LOCATE 0,0:IF z$=d$ OR ASC(z$)=0 THEN 20 ELSE
x=VALF(z$):j=0
125 IF x=<0 THEN IF (1AND sq)=1 THEN 120 ELSE tz=tz OR 1 ELSE IF x>0 THEN j=LN
x:g=ss+j*z:m=su+j*j*z
130 r=sa+z:s=sb+x*z:u=sd+x*x*z
140 LOCATE 18,1:INPUT @12;z$:LOCATE 0,0:IF z$="" THEN 20 ELSE y=VALF(z$)
145 IF y=<0 THEN IF sq>1 THEN 140 ELSE tz=tz OR 2 ELSE IF y>0 THEN k=LN
y:h=st+k*z:n=sv+k*k*z:p=sx+x*k*z:q=sy+j*k*z
160
t=sc+y*z:v=se+y*y*z:w=sf+x*y*z:o=sw+j*y*z:sa=r:sb=s:sc=t:sd=u:se=v:sf=w:ss=g:st
=h:su=m:sv=n:sw=o:sx=p:sy=q:GOTO 110
200 c=15:GOSUB 350:ON sq GOSUB 360,370,380

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Casio FX-850P Libreria interna

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210 sg=a(1)/sa:sh=a(2)/sa
220 sm=a(3)-sg*a(1):IF sm<0 THEN sm=0
230 sn=a(4)-sh*a(2):IF sn<0 THEN sn=0
240 so=a(5)-a(1)*sh:sp=sh*a(3)-sg*a(5):si=SQR(sm/sa):sj=SQR(sn/sa)
260 sk=SQR(sm/(sa-1)):sl=SQR(sn/(sa-1))
270 p=sp/sm:q=so/sm:r=so/SQR(sm*sn):IF sq>1 THEN p=EXP p:IF sq=2 THEN q=EXP q
280 RETURN
300 PRINT c$;"clear data (Y/N) ?";:a$=INPUT$(1,@)
310 IF a$="Y" OR a$="y" THEN
sa=0:sb=0:sc=0:sd=0:se=0:sf=0:ss=0:st=0:su=0:sv=0:sw=0:sx=0:sy=0:tz=0
320 GOTO 20
350 a(1)=sb:a(2)=sc:a(3)=sd:a(4)=se:a(5)=sf:RETURN
360 a(1)=ss:a(3)=su:a(5)=sw:RETURN
370 a(2)=st:a(4)=sv:a(5)=sx:RETURN
380 a(1)=ss:a(2)=st:a(3)=su:a(4)=sv:a(5)=sy:RETURN
400 CLS:GOSUB 200:IF c<15 OR so=0 THEN 20
410 DEF CHR$(255)="12548C4A12":CLS:PRINT "Estimation of x [";a$(sq);"]";
420 LOCATE 0,1:PRINT c$;"y?";:INPUT @10;z$:LOCATE 0,0:IF z$="" THEN 20 ELSE
s=VALF(z$)
430 ON sq+1GOSUB 950,960,970,980:LOCATE 12,1:PRINT
":y=";STR$(a);:z$=INPUT$(1,@):GOTO 420
450 CLS:GOSUB 200:IF c<15 OR sm=0 THEN 20
460 DEF CHR$(255)="124A844810":CLS:PRINT "Estimation of y [";a$(sq);"]";
470 LOCATE 0,1:PRINT c$;"x?";:INPUT @10;z$:LOCATE 0,0:IF z$="" THEN 20 ELSE
s=VALF(z$)
480 ON sq+1GOSUB 900,910,920,930:LOCATE 12,1:PRINT
":y=";STR$(a);:z$=INPUT$(1,@):GOTO 470
500 CLS:GOSUB 200:GOSUB 580:i=1:GOSUB 600:i=2
510 GOSUB 600
520 z=ASC(INPUT$(1,@)):IF z=28 OR z=29 THEN 20
530 IF z<>13AND z<>30AND z<>31 THEN 520
540 IF (z=30AND i=1) OR (z=31AND i=c) THEN 520
550 IF z=30 THEN i=i-2
560 i=i+1:IF i<=c THEN 510 ELSE 20
580 DEF CHR$(254)="0808003E00":DEF CHR$(253)="FE003E203E"
590
a(0)=sa:a(6)=sg:a(7)=sh:a(8)=si:a(9)=sj:a(10)=sk:a(11)=sl:a(12)=p:a(13)=q:a(14)
=r:RETURN
600 GOSUB 605:READ a$,a$,b$:PRINT
TAB(0);a$;TAB(7);":":b$;TAB(13);":":a(i-1);:RETURN
605 IF i=1 OR i=15 THEN j=0:GOTO 609
606 IF i=6 THEN j=sq:GOTO 609
607 IF i>12 THEN j=SGN(sq):GOTO 609
608 k=i MOD 2:IF (i<6AND k=1) OR (i>6AND k=0) THEN j=INT(sq/2) ELSE j=(sq MOD
2)
609 RESTORE(600+i*10+j):RETURN
610 DATA CNT,CNT,n
620 DATA SUMX,SUMX,,x
621 DATA SUMLNX,SUMYX,,yx
630 DATA SUMY,SUMY,,y
631 DATA SUMLNY,SUMYy,,yy
640 DATA SUMX2,SUMX2,,x'

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641 DATA SUMLNX2,SUMYX2,,y'
650 DATA SUMY2,SUMY2,,y'
651 DATA SUMLNY2,SUMY2,,y'
660 DATA SUMXY,SUMXY,,xy
661 DATA SUMLNXY,SUMYXY,,yxy
662 DATA SUMXLNY,SUMXY,,xy
663 DATA SUMLNXLNY,SUMXYXY,,yxy
670 DATA MEANX,MEANX,,x/n
671 DATA MEANLNX,MEANYX,,y/n
680 DATA MEANY,MEANY,,y/n
681 DATA MEANLNY,MEANY,,y/n
690 DATA SDXN,SDXN,xn
691 DATA SDLNXN,SDYN,,yn
700 DATA SDYN,SDYN,yzn
701 DATA SDLNYN,SDYN,,yn
710 DATA SDX,SDX,xn
711 DATA SDLNX,SDYN,,yn
720 DATA SDY,SDY,yzn
721 DATA SDLNY,SDY,,yn
730 DATA LRA,LRA,a
731 DATA RA,RA,a
740 DATA LRB,LRB,b
741 DATA RB,RB,b
750 DATA COR,COR,r
800 LOCATE 0,1:PRINT c$;".....";GOSUB 200:GOSUB 590
810 FOR i=1TO c:GOSUB 605:READ a$:LPRINT a$;TAB(10);"=";a(i-1):NEXT:GOTO 20
900 a=p+q*s:RETURN
910 a=p+q*LN s:RETURN
920 a=p*q^s:RETURN
930 a=p*s^q:RETURN
950 a=(s-p)/q:RETURN
960 a=EXP((s-p)/q):RETURN
970 a=(LN s-LN p)/LN q:RETURN
980 a=EXP((LN s-LN p)/LN q):RETURN
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=120 THEN RESUME 120
1020 IF ERL=140 THEN RESUME 140
1030 IF ERL=420 THEN RESUME 420
1040 IF ERL=470 THEN RESUME 470
1050 IF ERL=210 THEN c=6:RESUME 280
1060 IF ERL=260 THEN c=10:RESUME 280
1070 IF ERL=270 THEN c=12:RESUME 280
1080 IF (ERL=130 OR ERL=150)AND ERR=13 THEN LOCATE 0,1:PRINT c$;"data
over";:z$=INPUT$(1,@):RESUME 20
1090 LOCATE 0,1:PRINT c$;"not found";:a$=INPUT$(1,@):RESUME 20

```

Programa M6710

```

5 IF sq<>60 AND sq<>62 THEN sq=226
10 MODE 8:DIM:GOSUB 900:ERASE b$:DIM
b$(1):b$(0)="Reject":b$(1)="Accept":t$="Test      Hù:=" Hù:"+CHR$(sq)+"ù":DEF

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Casio FX-850P Libreria interna

```

CHR$(254)="A2A49C92A2":c$=CHR$(5):DEF CHR$(252)="123E020000"
20 CLS:PRINT t$;TAB(0);"input new data (Y/N) ?";a$=INPUT$(1)
25 IF a$<>"Y" AND a$<>"y" THEN 40
30 s$="x":GOSUB "LIB0:S6020":GOSUB 900
40 r=0:s=0:f=5:t=sa:IF t THEN u=sg ELSE u=0
45 CLS:PRINT t$;
50 z=r:s$="û":GOSUB 500:r=z
60 z=s:s$="ž":GOSUB 500:s=z
70 z=t:s$="n":GOSUB 500:t=z
80 z=u:s$="p":GOSUB 500:u=z
90 CLS:PRINT "Significance level ^[%]";
95 z=f:s$="^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT t$;TAB(0);".....";
100 p=f/100:IF sq=226 THEN p=p/2
105 sr=0:GOSUB "LIB0:S6410":GOSUB 900:IF sr THEN *
110 b=1:z=(u-r)/(s/SQR t):GOSUB 400:a=z:z=x:GOSUB 400:x=z
120 IF sq=226 THEN a=ABS a
121 IF (sq=62 OR sq=226) AND a>x THEN b=0
122 IF sq=60 THEN x=-x:IF a<x THEN b=0
130 z=SGN(sq-60):PRINT c$;a;CHR$(60+z*2+b*(164-z));x;":
";b$(b);:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa M6720

```

5 IF sq<>60 AND sq<>62 THEN sq=226
10 MODE 8:DIM:GOSUB 900:ERASE b$:DIM
b$(1):b$(0)="Reject":b$(1)="Accept":t$="Test Hù:=û HÛ: "+CHR$(sq)+"û":DEF
CHR$(254)="A2A49C92A2":c$=CHR$(5):DEF CHR$(252)="123E020000"
20 CLS:PRINT t$;TAB(0);"input new data (Y/N) ?";a$=INPUT$(1)
25 IF a$<>"Y" AND a$<>"y" THEN 40
30 s$="x":GOSUB "LIB0:S6020":GOSUB 900
40 r=0:f=5:s=sa:IF s>1 THEN t=sg:u=sk^2 ELSE t=0:u=0
45 CLS:PRINT t$;
50 z=r:s$="û":GOSUB 500:r=z
60 z=s:s$="n":GOSUB 500:s=z
70 z=t:s$="p":GOSUB 500:t=z
80 z=u:s$="V":GOSUB 500:u=z
90 CLS:PRINT "Significance level ^[%]";
95 z=f:s$="^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT t$;TAB(0);".....";
100 n=s-1:p=f/100:IF sq=226 THEN p=p/2
105 sr=0:GOSUB "LIB0:S6430":GOSUB 900:IF sr THEN *
110 b=1:z=(t-r)/SQR(u/s):GOSUB 400:a=z:z=x:GOSUB 400:x=z
120 IF sq=226 THEN a=ABS a

```

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```

121 IF (sq=62 OR sq=226) AND a>x THEN b=0
122 IF sq=60 THEN x=-x:IF a<x THEN b=0
130 z=SGN(sq-60):PRINT c$;a;CHR$(60+z*2+b*(164-z));x;"
";b$(b);:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa M6730

```

5 IF sq<>60 AND sq<>62 THEN sq=226
10 MODE 8:DIM:GOSUB 900:ERASE b$:DIM
b$(1):b$(0)="Reject":b$(1)="Accept":t$="Test      Hû:Ž' =Žû'
Hû:Ž' "+CHR$(sq)+"Žû'":c$=CHR$(5):DEF CHR$(252)="123E020000"
20 CLS:PRINT t$;TAB(0);"input new data (Y/N) ?";:a$=INPUT$(1)
25 IF a$<>"Y" AND a$<>"y" THEN 40
30 s$="x":GOSUB "LIB0:S6020":GOSUB 900
40 r=0:f=5:s=sa:IF s>1 THEN t=sm ELSE t=0
45 CLS:PRINT t$;
50 z=r:s$="Žû'":GOSUB 500:r=z
60 z=s:s$="n":GOSUB 500:s=z
70 z=t:s$="S":GOSUB 500:t=z
90 CLS:PRINT "Significance level ^[%]";
95 z=f:s$="^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT t$;TAB(0);".....";
100 n=s-1:p=f/100:IF sq=226 THEN p=p/2 ELSE IF sq=60 THEN p=1-p
102 g=0:sr=0:GOSUB "LIB0:S6420":GOSUB 900:IF sr THEN *
104 IF sq=226 THEN g=x:p=1-p:GOSUB "LIB0:S6420":GOSUB 900:IF sr THEN * ELSE
b=x:x=g:g=b
110 b=1:z=t/r:GOSUB 400:a=z:z=x:GOSUB 400:x=z:z=g:GOSUB 400:g=z
120 IF (sq=226 OR sq=62) AND a>x THEN b=0
122 IF sq=60 AND a<x THEN b=0
123 IF sq=226 AND a<g THEN c=0 ELSE c=1
130 z=SGN(sq-60):PRINT c$;a;CHR$(60+z*2+b*(164-z));x;:IF sq<63 THEN PRINT "
";b$(b);:GOTO 150
140 PRINT TAB(0);a;CHR$(60+c*164);g;" " ;b$(b AND c);
150 a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa M6740

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```

5 IF sq<>60 AND sq<>62 THEN sq=226
10 MODE 8:DIM:GOSUB 900:ERASE b$:DIM
b$(1):b$(0)="Reject":b$(1)="Accept":t$="Test      Hü:Žü' =Žý'
Hü:Žü'"+CHR$(sq)+"Žý'":c$=CHR$(5):DEF CHR$(252)="123E020000":DEF
CHR$(253)="2E2A3A0000"
20 CLS:PRINT t$;TAB(0);"input new data xü (Y/N) ?";:a$=INPUT$(1)
22 IF a$<>"Y" AND a$<>"y" THEN 30
25 s$="xü":GOSUB "LIB0:S6020":GOSUB 900
30 CLS:PRINT t$;TAB(0);"input new data xy (Y/N) ?";:a$=INPUT$(1)
32 IF a$<>"Y" AND a$<>"y" THEN 36
35 s$="xy":GOSUB "LIB0:S6030":GOSUB 900
36 s=sa:IF s>1 THEN r=sk^2 ELSE r=0
37 f=5:u=sz:IF u>1 THEN t=s1^2 ELSE t=0
45 CLS:PRINT t$;
50 z=s:s$="nü":GOSUB 500:s=z
60 z=r:s$="Vü":GOSUB 500:r=z
70 z=u:s$="ný":GOSUB 500:u=z
80 z=t:s$="Vý":GOSUB 500:t=z
90 CLS:PRINT "Significance level ^[%]";
95 z=f:s$="^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT t$;TAB(0);".....";
100 n=s-1:m=u-1:p=f/100:IF sq=226 AND r<t THEN n=u-1:m=s-1
102 IF sq=226 THEN p=p/2 ELSE IF sq=60 THEN p=1-p
105 sr=0:GOSUB "LIB0:S6440":GOSUB 900:IF sr THEN *
107 IF sq=226 AND r<t THEN z=t/r ELSE z=r/t
110 b=1:GOSUB 400:a=z:z=x:GOSUB 400:x=z
120 IF (sq=226 OR sq=62) AND a>x THEN b=0
122 IF sq=60 AND a<x THEN b=0
130 z=SGN(sq-60):PRINT c$;a;CHR$(60+z*2+b*(164-z));x;":
";b$(b);:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa M6750

```

5 IF sq<>60 AND sq<>62 THEN sq=226
10 MODE 8:DIM:GOSUB 900:ERASE b$:DIM
b$(1):b$(0)="Reject":b$(1)="Accept":t$="Test      Hü:ü=y Hü:ü"+CHR$(sq)+"ý":DEF
CHR$(254)="A2A49C92A2":c$=CHR$(5):DEF CHR$(252)="123E020000":DEF
CHR$(253)="2E2A3A0000"
20 CLS:PRINT t$;TAB(0);"input new data xü (Y/N) ?";:a$=INPUT$(1)
22 IF a$<>"Y" AND a$<>"y" THEN 30
25 s$="xü":GOSUB "LIB0:S6020":GOSUB 900
30 CLS:PRINT t$;TAB(0);"input new data xy (Y/N) ?";:a$=INPUT$(1)
32 IF a$<>"Y" AND a$<>"y" THEN 36

```

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```

35 s$="xy":GOSUB "LIB0:S6030":GOSUB 900
36 r=sa:IF r>1 THEN s=sg:t=sm ELSE s=0:t=0
37 f=5:u=sz:IF u>1 THEN v=sh:w=sn ELSE v=0:w=0
45 CLS:PRINT t$;
50 z=r:s$="nü":GOSUB 500:r=z
55 z=s:s$="pü":GOSUB 500:s=z
60 z=t:s$="Sü":GOSUB 500:t=z
70 z=u:s$="ný":GOSUB 500:u=z
75 z=v:s$="pý":GOSUB 500:v=z
80 z=w:s$="Sý":GOSUB 500:w=z
90 CLS:PRINT "Significance level ^[%]";
95 z=f:s$="^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT t$;TAB(0);".....";
100 n=r+u-2:p=f/100:IF sq=226 THEN p=p/2
105 sr=0:GOSUB "LIB0:S6430":GOSUB 900:IF sr THEN *
107 z=(s-v):IF sq=226 THEN z=ABS z
110 b=1:z=z/SQR((1/r+1/u)*((t+w)/n)):GOSUB 400:a=z:z=x:GOSUB 400:x=z
120 IF (sq=226 OR sq=62) AND a>x THEN b=0
122 IF sq=60 THEN x=-x:IF a<x THEN b=0
130 z=SGN(sq-60):PRINT c$;a;CHR$(60+z*2+b*(164-z));x;":
";b$(b);:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 20

```

Programa M6760

```

5 IF sq<>60 AND sq<>62 THEN sq=226
10 MODE 8:DIM:GOSUB 900:ERASE b$:DIM
b$(1):b$(0)="Reject":b$(1)="Accept":t$="Test      Hü:p=pû
Hü:p"+CHR$(sq)+"pû":f=5:c$=CHR$(5):r=0:s=0:t=0:DEF CHR$(252)="123E020000"
45 CLS:PRINT t$;
50 z=r:s$="pü":GOSUB 500:r=z:IF r>=1 OR r<0 THEN 50
60 z=s:s$="n":GOSUB 500:s=z
70 z=t:s$=",,x":GOSUB 500:t=z
90 CLS:PRINT "Significance level ^[%]";
95 z=f:s$="^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT t$;TAB(0);".....";
100 p=f/100:IF sq=226 THEN p=p/2
105 sr=0:GOSUB "LIB0:S6410":GOSUB 900:IF sr THEN *
107 z=t-s*r:IF sq=226 THEN z=ABS z
110 b=1:z=z/SQR(s*r*(1-r)):GOSUB 400:a=z:z=x:GOSUB 400:x=z
120 IF (sq=226 OR sq=62) AND a>x THEN b=0
122 IF sq=60 THEN x=-x:IF a<x THEN b=0
130 z=SGN(sq-60):PRINT c$;a;CHR$(60+z*2+b*(164-z));x;":
";b$(b);:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)

```

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```

410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 45

```

Programa M6770

```

5 IF sq<>60 AND sq<>62 THEN sq=226
10 MODE 8:DIM:GOSUB 900:ERASE b$:DIM
b$(1):b$(0)="Reject":b$(1)="Accept":t$="Test      Hü:pü=pý
Hü:pü"+CHR$(sq)+"pý":f=5:c$=CHR$(5):DEF CHR$(252)="123E02000":DEF
CHR$(253)="2E2A3A0000":r=0:s=0:t=0:u=0
45 CLS:PRINT t$;
50 z=r:s$="nü":GOSUB 500:r=z
60 z=s:s$=",,xü":GOSUB 500:s=z
70 z=t:s$="ný":GOSUB 500:t=z
80 z=u:s$=",,xy":GOSUB 500:u=z
90 CLS:PRINT "Significance level ^[%]";
95 z=f:s$="^":GOSUB 500:f=z:IF f<0 OR f>100 THEN 95
97 CLS:PRINT t$;TAB(0);".....";
100 p=f/100:IF sq=226 THEN p=p/2
105 sr=0:GOSUB "LIB0:S6410":GOSUB 900:IF sr THEN *
107 z=s/r-u/t:IF sq=226 THEN z=ABS z
110 b=1:v=(s+u)/(r+t):z=z/SQR(v*(1-v)*(1/r+1/t)):GOSUB 400:a=z:z=x:GOSUB
400:x=z
120 IF (sq=226 OR sq=62) AND a>x THEN b=0
122 IF sq=60 THEN x=-x:IF a<x THEN b=0
130 z=SGN(sq-60):PRINT c$;a;CHR$(60+z*2+b*(164-z));x;"":
";b$(b);:a$=INPUT$(1,@):GOTO 45
400 IF z THEN z=ROUND(z,LOG(ABS z)-5)
410 RETURN
500 LOCATE 0,1:PRINT c$;s$;"=";z;"?";:INPUT @10;z:LOCATE 0,0:RETURN
900 ON ERROR GOTO 910:RETURN
910 IF ERR=1 THEN CLS:ON ERROR GOTO 0
920 IF ERL=500 THEN RESUME 500
930 LOCATE 0,1:PRINT c$;"not found";:z$=INPUT$(1,@):RESUME 45

```

Programa S6020

```

5 ON ERROR GOTO 1000
10 MODE 8:DIM:ERASE a,a$:DIM a(5),a$(1):a$(1)="Input":a$(0)="Delete":c$=CHR$(5)
20 CLS:PRINT "Input data (;s$;)" ;TAB(0);">Input,Delete,Clear,List,End ?";
30 a=ASC(INPUT$(1)):IF a>96 THEN a=a-32
40 ON a-66 GOTO 300,100,200,,,,100,,,500
50 GOTO 30
100 CLS:PRINT a$(SGN(a-68));" data (;s$;)" ;TAB(21);"[EXE]:menu";:z=SGN(a-69)
110 LOCATE 0,1:PRINT c$;s$;"?";
120 LOCATE LEN(s$)+1,1:INPUT @12;z$:LOCATE 0,0:IF z$="" THEN 20 ELSE x=VALF(z$)

```

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```

150 r=sa+z:s=sb+x*z:u=sd+x*x*z
160 sa=r:sb=s:sd=u:GOTO 110
200 c=6
210 sg=sb/sa
220 sm=sd-sg*sb:IF sm<0 THEN sm=0
250 si=SQR(sm/sa)
260 sk=SQR(sm/(sa-1))
280 RETURN
300 PRINT c$;"clear data (Y/N) ?";
310 a$=INPUT$(1,@):IF a$<>"Y" AND a$<>"y" THEN 20
320 sa=0:sb=0:sd=0:GOTO 20
500 CLS:GOSUB 200:GOSUB 580:i=1:GOSUB 600:i=2
510 GOSUB 600
520 z=ASC(INPUT$(1,@)):IF z=28 OR z=29 THEN 20
530 IF z<>13 AND z<>30 AND z<>31 THEN 520
540 IF (z=30 AND i=1) OR (z=31 AND i=c) THEN 520
550 IF z=30 THEN i=i-2
560 i=i+1:IF i<c THEN 510 ELSE 20
580 DEF CHR$(255)="0808003E00"
590 a(0)=sa:a(1)=sb:a(2)=sd:a(3)=sg:a(4)=si:a(5)=sk:RETURN
600 RESTORE(600+i*10):READ a$,b$:PRINT
TAB(0);a$;TAB(7);":":b$;TAB(13);"=";a(i-1);:RETURN
610 DATA CNT,n
620 DATA SUMX,,x
630 DATA SUMX2,,x'
640 DATA MEANX,,x/n
650 DATA SDXN,xŽn
660 DATA SDX,xŽnÿ
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=120 THEN RESUME 120
1050 IF ERL=210 THEN c=3:RESUME 280
1060 IF ERL=260 THEN c=5:RESUME 280
1080 IF ERL=150 THEN LOCATE 0,1:PRINT c$;"data over";z$=INPUT$(1,@):RESUME 20
1090 LOCATE 0,1:PRINT c$;"not found";a$=INPUT$(1,@):RESUME 20

```

Programa S6030

```

5 ON ERROR GOTO 1000
10 MODE 8:DIM:ERASE a,a$:DIM
a(5),a$(1):a$(1)="Input":a$(0)="Delete":c$=CHR$(5):sf=0
20 CLS:PRINT "Input data (";s$;")";TAB(0);">Input,Delete,Clear,List,End ?";
30 a=ASC(INPUT$(1)):IF a>96 THEN a=a-32
40 ON a-66 GOTO 300,100,200,,100,,500
50 GOTO 30
100 CLS:PRINT a$(SGN(a-68));" data (";s$;")";TAB(21);"[EXE]:menu";:z=SGN(a-69)
110 LOCATE 0,1:PRINT c$;s$;"?";
120 LOCATE LEN(s$)+1,1:INPUT @12;z$:LOCATE 0,0:IF z$="" THEN 20 ELSE y=VALF(z$)
150 r=sz+z:s=sc+y*z:u=se+y*y*z
160 sz=r:sc=s:se=u:GOTO 110
200 c=6
210 sh=sc/sz

```

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```

220 sn=se-sh*sc:IF sn<0 THEN sn=0
250 sj=SQR(sn/sz)
260 sl=SQR(sn/(sz-1))
280 RETURN
300 PRINT c$;"clear data (Y/N) ?";
310 a$=INPUT$(1,@):IF a$<>"Y" AND a$<>"y" THEN 20
320 sz=0:sc=0:se=0:GOTO 20
500 CLS:GOSUB 200:GOSUB 580:i=1:GOSUB 600:i=2
510 GOSUB 600
520 z=ASC(INPUT$(1,@)):IF z=28 OR z=29 THEN 20
530 IF z<>13 AND z<>30 AND z<>31 THEN 520
540 IF (z=30 AND i=1) OR (z=31 AND i=c) THEN 520
550 IF z=30 THEN i=i-2
560 i=i+1:IF i<=c THEN 510 ELSE 20
580 DEF CHR$(255)="0808003E00"
590 a(0)=sz:a(1)=sc:a(2)=se:a(3)=sh:a(4)=sj:a(5)=sl:RETURN
600 RESTORE(600+i*10):READ a$,b$:PRINT
TAB(0);a$;TAB(7);": ";b$;TAB(13);"=";a(i-1);:RETURN
610 DATA CNT,n
620 DATA SUMX,,x
630 DATA SUMX2,,x'
640 DATA MEANX,,x/n
650 DATA SDXN,xŽn
660 DATA SDX,xŽnÿ
1000 IF ERR=1 THEN CLS:ON ERROR GOTO 0
1010 IF ERL=120 THEN RESUME 120
1050 IF ERL=210 THEN c=3:RESUME 280
1060 IF ERL=260 THEN c=5:RESUME 280
1080 IF ERL=150 THEN LOCATE 0,1:PRINT c$;"data over";:z$=INPUT$(1,@):RESUME 20
1090 LOCATE 0,1:PRINT c$;"not found";:a$=INPUT$(1,@):RESUME 20

```

Programa S6210

```

5 ON ERROR GOTO 500
10 y=ABS x:p=0
15 IF y>100 THEN 60
20 IF y<1.9 THEN 50
30 FOR i=18 TO 1 STEP -1:p=i/(y+p):NEXT
40 p=EXP(-.5*y*y)/SQR(2*PI)/(y+p):GOTO 60
50
p=(1+y*(.049867347+y*(.0211410061+y*(.0032776263+y*(.0000380036+y*(.0000488906+
y*.000005383))))))^-16/2
60 IF x<0 THEN p=1-p
80 y=p:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6220

```

10 GOSUB 400:IF x<0 THEN p=1:GOTO 80

```

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```

20 IF n>100 THEN z=x:x=((x/n)^(1/3)-(1-2/9/n))/SQR(2/9/n):GOSUB
"LIB0:S6210":GOSUB 400:p=y:x=z:GOTO 80
30 IF x>400 THEN p=0:GOTO 80
40 a=EXP(-x/2):p=a:y=2
50 IF n MOD 2<>0 THEN z=x:x=SQR x:GOSUB "LIB0:S6210":GOSUB
400:p=2*y:a=SQR(2/PI)*a/x:x=z:y=1
60 FOR i=y TO n-2 STEP 2:a=a*x/i:p=p+a:NEXT
80 y=p:RETURN
400 ON ERROR GOTO 500:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6230

```

5 ON ERROR GOTO 500
10 ANGLE 1:y=ATN(x/SQR n):z=COS y^2
20 IF n MOD 2=0 THEN a=SIN y/2:b=.5 ELSE b=.5+y/PI:IF n=1 THEN a=0 ELSE a=SIN
y*COS y/PI
30 y=1:FOR i=n-2 TO 2 STEP -2:y=1+(i-1)/i*z*y:NEXT
40 p=1-(b+a*y):IF p<0 THEN p=0
80 y=p:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6240

```

5 ON ERROR GOTO 500
10 ANGLE 1:IF x=<0 THEN p=1:GOTO 80
20 IF m MOD 2=0 THEN z=m/(m+n*x):GOSUB 100:p=1-p:GOTO 80
30 IF n MOD 2=0 THEN z=n*x/(m+n*x):i=m:m=n:n=i:GOSUB 100:i=m:m=n:n=i:GOTO 80
40 y=ATN SQR(n*x/m)
50 GOSUB 200:p=p+a:IF p<0 THEN p=0
80 y=p:RETURN
100 a=1:FOR i=m-2 TO 2 STEP -2:a=1+(n+i-2)/i*z*a:NEXT
110 p=(1-z)^(n/2)*a:RETURN
200 z=(SIN y)^2:IF n=1 THEN a=0 ELSE a=1
210 FOR i=n-2 TO 3 STEP -2:a=1+(m+i-2)/i*z*a:NEXT
220 b=PI:FOR i=2 TO m-1 STEP 2:b=b*(i-1)/i:NEXT
230 p=2/b*SIN y*(COS y)^m*a
250 z=(COS y)^2:IF m=1 THEN a=0 ELSE a=1
260 FOR i=m-2 TO 3 STEP -2:a=1+(i-1)/i*z*a:NEXT
270 a=1-2*y/PI-2/PI*SIN y*COS y*a:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6310

```

5 ON ERROR GOTO 500
10 IF p=1 THEN IF n=x THEN s=1:f=1:GOTO 80 ELSE s=0:f=0:GOTO 80

```

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```

20 q=1-p:f=q^n:s=f:z=p/q:y=n+1
30 FOR i=1 TO x:f=f*z*(y-i)/i:s=s+f:NEXT
80 s=1-s+f:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6320

```

5 ON ERROR GOTO 500
10 f=EXP(-k):s=f
20 FOR i=1 TO x:f=f*k/i:s=s+f:NEXT
80 s=1-s+f:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6330

```

5 ON ERROR GOTO 500
10 GOSUB 100:s=f:q=k+1:y=n+1
30 FOR i=1 TO x:f=f*(q-i)*(y-i)/i/(z+i):s=s+f:NEXT
80 s=1-s+f:RETURN
100 q=m-k:y=m-n:z=m-k-n:f=1
110 IF q<17 AND k<17 THEN FOR i=0 TO n-1:f=f*(q-i)/(m-i):NEXT:RETURN
120 f=(q+.5)*LN q+(y+.5)*LN y-(m+.5)*LN m-(z+.5)*LN
z+(1/q+1/y-1/m-1/z)/12:f=EXP f:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6410

```

5 ON ERROR GOTO 500
10 IF p=<0 OR p>=1 THEN *
20 y=-LN(4*p*(1-p))
30
x=.5824238515E-5+y*(-.104527497E-5+y*(.8360937017E-7+y*(-.3231081277E-8+y*(.365
7763036E-10+y*.6936233982E-12))))))
40
x=SQR(y*(1.570796288+y*(.03706987906+y*(-.8364353589E-3+y*(-.2250947176E-3+y*(.
6841218299E-5+y*x))))))
50 IF p>.5 THEN x=-x
80 y=x:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6420

```

10 GOSUB 400:IF p>1 OR p=<0 THEN *
15 IF p=1 THEN x=0:GOTO 80

```

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```

20 IF n=1 THEN q=p:p=q/2:GOSUB "LIB0:S6410":GOSUB 400:x=y*y:p=q:GOTO 80
30 IF n=2 THEN x=-2*LN p:GOTO 80
40 GOSUB "LIB0:S6410":GOSUB
400:x=y:y=x*x:x=n+SQR(2*n)*x+2/3*(y-1)+x*(y-7)/9/SQR(2*n)-2/405/n*(y*(3*y+7)-16
):IF x<0 THEN x=0
50 IF n>100 THEN 80
60 b=x:GOSUB 100:IF n<31 THEN IF ABS(b-x)>1E-4 THEN 60
80 y=x:RETURN
100 q=p:GOSUB "LIB0:S6220":GOSUB 400:p=y
110 z=EXP(((n-1)*LN(x/n)-LN(4*PI*x)+n-x-1/n/6)/2)
120 x=x+(p-q)/z:p=q:x=ROUND(x,-6):RETURN
400 ON ERROR GOTO 500:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6430

```

20 GOSUB 400:ANGLE 1:IF p>=1 OR p<0 THEN *
30 GOSUB "LIB0:S6410":GOSUB 400:x=y:y=x^2
40
a=(y+1)/4:b=((5*y+16)*y+3)/96:c((((3*y+19)*y+17)*y-15)/384:d((((79*y+776)*y+14
82)*y-1920)*y-945)/92160:e((((27*y+339)*y+930)*y-1782)*y-765)*y+17955)/368640
50 x=x*(1+(a+(b+(c+(d+e/n)/n)/n)/n)/n)
60 IF n>(LOG p)^2+3 THEN 80
70 q=p:GOSUB "LIB0:S6230":GOSUB 400:p=y:GOSUB 100:y=x:x=x+(p-q)/a:p=q:IF x THEN
IF ROUND(x-y,LOG(ABS x)-5)<>0 THEN 70
80 y=x:RETURN
100 b=n+1:a=EXP((b*LN(b/(n+x*x))+LN(n/b/2/PI)-1+(1/b-1/n)/6)/2):RETURN
400 ON ERROR GOTO 500:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80

```

Programa S6440

```

10 GOSUB 400:ANGLE 1:IF p>1 OR p<0 THEN *
15 IF p=1 THEN x=0:GOTO 80
20 IF m=1 THEN m=p:p=.5-p/2:GOSUB "LIB0:S6430":GOSUB 400:p=m:m=1:x=1/y^2:GOTO
80
30 IF n=1 THEN n=m:p=p/2:GOSUB "LIB0:S6430":GOSUB 400:n=1:p=p^2:x=y^2:GOTO 80
40 IF m=2 THEN p=1-p:m=n:n=2:GOSUB 100:p=1-p:n=m:m=2:x=1/x:GOTO 80
50 IF n>m THEN p=1-p:d=n:n=m:m=d:GOSUB 200:x=1/x:d=m:m=n:n=d:p=1-p:GOTO 80
60 GOSUB 200
80 y=x:RETURN
100 GOSUB "LIB0:S6420":GOSUB 400:x=y:a=n-2
110
x=x/n*(1+((x-a)/2+(((4*x-11*a)*x+a*(7*n-10))/24+(((2*x-10*a)*x+a*(17*n-26))*x-a
*a*(9*n-6))/48/m)/m)/m):RETURN
200 GOSUB 100
210 d=x:c=p:GOSUB "LIB0:S6240":GOSUB 400:p=c
220 z=n+m:z=EXP((z*LN(z/(n*x+m)))+(n-2)*LN

```

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```
x+LN(n*m/z)-LN(4*PI)-(1/n+1/m-1/z)/6)/2):x=x+(y-p)/z
230 IF ABS(d-x)>3E-4 THEN 210 ELSE RETURN
400 ON ERROR GOTO 500:RETURN
500 IF ERR=1 THEN CLS:ON ERROR GOTO 0
510 sr=1:RESUME 80
```

Programa Z5830

```
5 GOTO 10010
10 DATA ,x+C,10,20
20 DATA xæ,xæš'/(n+1)+C (n+1â0),10,30
30 DATA 1/x,logÿxÿ+C,20,40
40 DATA 1/(xûa),logÿxûaÿ+C,30,50
50 DATA e,e+C,40,60
60 DATA eæ,eæ/n+C,50,70
70 DATA a,"a/loga+C (a>0,aâ1)",60,80
80 DATA aæ,"aæ/(nÿloga)+C (a>0,aâ1)",70,90
90 DATA logx,x(logx-1)+C,80,100
100 DATA xeæ,eæ/n'ÿ(nx-1)+C,90,110
110 DATA sinx,-cosx+C,100,120
120 DATA sinax,-1/aÿcosax+C,110,130
130 DATA cosx,sinx+C,120,140
140 DATA cosax,1/aÿsinax+C,130,150
150 DATA tanx,-logÿcosxÿ+C,140,160
160 DATA cotx,logÿsinxÿ+C,150,170
170 DATA sin'x,x/2-sin2x/4+C,160,180
180 DATA cos'x,x/2+sin2x/4+C,170,190
190 DATA sec'ax,1/aÿtanax+C,180,200
200 DATA cosec'ax,-1/aÿcotax+C,190,210
210 DATA 1/sinx,log(tan(x/2))+C,200,220
220 DATA 1/cosx,log(tan((ç/4)+(x/2)))+C,210,230
230 DATA eæsinbx,eæ(nÿsinbx-bÿcosbx)/(n'+b')+C,220,240
240 DATA eæcosbx,eæ(nÿcosbx+bÿsinbx)/(n'+b')+C,230,250
250 DATA sinžx,xsinžx+,(1-x')+C,240,260
260 DATA cosžx,xcosžx-,(1-x')+C,250,270
270 DATA sinhx,coshx+C,260,280
280 DATA coshx,sinhx+C,270,290
290 DATA tanhx,log(coshx)+C,280,300
300 DATA 1/(a'-x'),sinž(x/a)+C (ÿxÿ<a),290,310
310 DATA 1/(a'+x'),1/aÿtanž(x/a)+C,300,320
320 DATA 1/(x'ûa'),log(x+,(x'ûa'))+C,310,330
330 DATA ,(a'-x'),1/2ÿ(x,(a'-x')+a'sinž(x/a))+C,320,340
340 DATA 1/(x'-a'),1/2aÿlog((x-a)/(x+a))+C (x>a),330,340
10010 MODE 8:DIM:x=10:y=340:r=x
10020 DEF CHR$(255)="0000FF0000"
10110 RESTORE(r)
10120 READ m$,n$,b,c:IF m$="" THEN m$=CHR$(8)
10130 l$="["+MID$(STR$(r/10),2)+"]":l=32-LEN(l$)
10140 CLS:PRINT CHR$(129);" ";m$;" dx";TAB(1);l$;"=";n$;
10150 z=ASC(INPUT$(1,@))
10170 IF z=29 AND r<>x THEN r=x:GOTO 10110
```

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```
10180 IF z=28 AND r<>y THEN r=y:GOTO 10110
10190 IF z=30 AND r<>b THEN r=b:GOTO 10110
10200 IF (z=31 OR z=13)AND r<>c THEN r=c:GOTO 10110
10280 GOTO 10150
[]
```