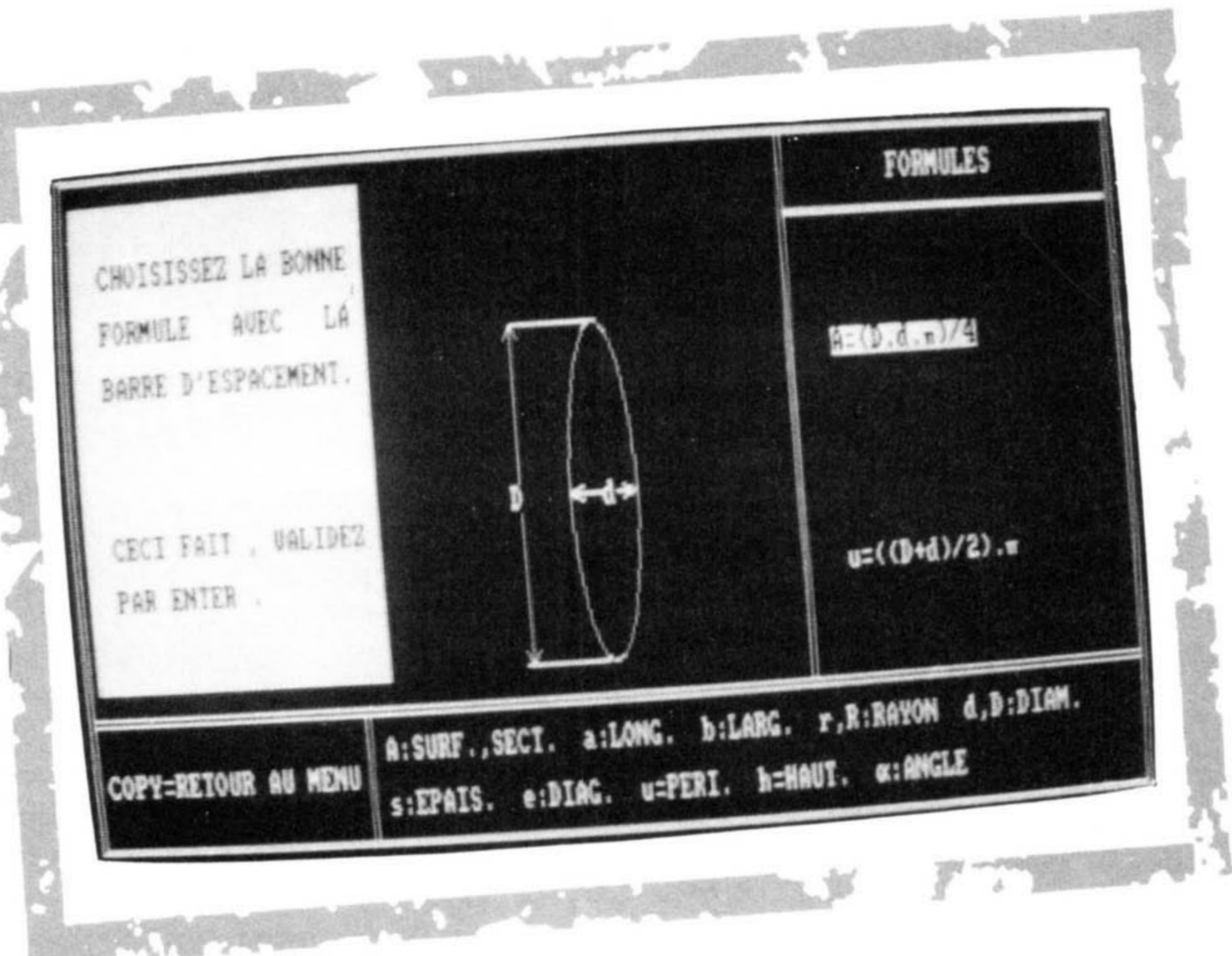




SURFACE

Emmanuel GUILLARD

Calculer la surface d'un carré ou d'un rectangle... Facile ! Mais celle d'un trapèze, d'un losange ou, mieux, d'une ellipse, cela vous dirait ? Pas vraiment, n'est-ce pas ? Surface vous permet de calculer tout cela en deux temps, trois mouvements avec formules à l'appui. Si vous avez du mal en math et que votre prochaine interro approche, saisissez vite ce programme qui vous fera réviser vos points faibles. Initialement conçu avec son complément : Volume (qui sera publié dans le prochain hors série), Surface est parfaitement utilisable seul. Alors, bonne révision...



```

10 ON ERROR GOTO 4890
20 '
30 ' SURFACES
40 '
50 ' MENU PRINCIPAL
60 '
70 MODE 2:SU$=CHR$(24):SURF=1:GOSUB >JY
  4850
80 LOCATE 26,6:PRINT SU$;"CARRE";SU >PZ
  $;SPC(10);SU1$;"LOSANGE";SU1$
90 LOCATE 26,8:PRINT SU2$;"RECTANGL >KT
  E";SU2$;SPC(6);SU3$;"PARALLELOGRAMM
  E";SU3$
100 LOCATE 26,10:PRINT SU4$;"TRIANG >YF
  LE";SU4$;SPC(7);SU5$;"TRAPEZE";SU5$

110 LOCATE 26,12:PRINT SU6$;"CERCLE >XE
  ";SU6$;SPC(9);SU7$;"COURONNE";SU7$
120 LOCATE 26,14:PRINT SU8$;"SECTEU >PL
  R";SU8$;SPC(8);SU9$;"SEGMENT CIRCUL
  AIRE";SU9$
130 LOCATE 26,16:PRINT SU10$;"ELLIP >NQ
  SE";SU10$
140 '
150 ' CHOIX
160 '
  
```

```

>PY 170 IF INKEY(8)=0 THEN SURF=SURF-1: >LG
>LB GOTO 240
>LC 180 IF INKEY(0)=0 THEN SURF=SURF-2: >LA
>LD GOTO 240
>LE 190 IF INKEY(1)=0 THEN SURF=SURF+1: >LA
>LF GOTO 250
>JY 200 IF INKEY(2)=0 THEN SURF=SURF+2: >LU
  GOTO 250
210 IF INKEY(9)=0 THEN RUN"SURVOL" >CC
  ' k7
220 IF INKEY(18)=0 THEN ON SURF GOS >FH
  UB 390,790,1230,1610,2090,2390,2740
  ,3090,3250,3590,4070:GOTO 80
230 GOTO 170 >YK
240 IF SURF<1 THEN SURF=11 >VM
250 IF SURF>11 THEN SURF=1 >VN
260 ON SURF GOSUB 270,280,290,300,3 >PB
  10,320,330,340,350,360,370:GOTO 80
270 SU$=CHR$(24):SU1$="":SU2$="":SU >CF
  10$="":SU9$="":RETURN
280 SU1$=CHR$(24):SU$="":SU2$="":SU >CA
  3$="":SU10$="":RETURN
290 SU2$=CHR$(24):SU$="":SU1$="":SU >BA
  3$="":SU4$="":RETURN
>RH 300 SU3$=CHR$(24):SU1$="":SU2$="":S >CB
  
```

```

U4$="":SU5$="":RETURN
310 SU4$=CHR$(24):SU2$="":SU3$="":S >CH
  U5$="":SU6$="":RETURN
320 SU5$=CHR$(24):SU3$="":SU4$="":S >CP
  U6$="":SU7$="":RETURN
330 SU6$=CHR$(24):SU4$="":SU5$="":S >CW
  U7$="":SU8$="":RETURN
340 SU7$=CHR$(24):SU5$="":SU6$="":S >CC
  U8$="":SU9$="":RETURN
350 SU8$=CHR$(24):SU6$="":SU7$="":S >DE
  U9$="":SU10$="":RETURN
360 SU9$=CHR$(24):SU7$="":SU8$="":S >EH
  U10$="":SU11$="":RETURN
370 SU10$=CHR$(24):SU$="":SU8$="":S >BH
  U9$="":SU$="":RETURN
380 ' carre >TB
390 MODE 2:GOSUB 4670:GOSUB 4860 >ZD
400 PLOT 320,200,13:DRAWR -100,0:DR >PL
  AWR 0,100:DRAWR 100,0:DRAWR 0,-100
410 PLOT 220,200:DRAWR -17,0:DRAWR >UQ
  0,100:DRAWR 17,0
420 PLOT 203,200:DRAWR -5,10:PLOT >MQ
  11,0:DRAWR -5,-10:PLOT 203,300:DRAW
  R -5,-10:PLOT 11,0:DRAWR -5,10
430 PLOT 220,200:DRAWR 0,-17:DRAWR >UT
  100,0:DRAWR 0,17
  
```



```

440 PLOT 220,183:DRAWR 10,5:PLOTR 0 >JD #1,2,6:PRINT#1,"La diagonale est":P
,-11:DRAWR -10,5:PLOT 320,183:DRAWR RINT #1," de :;dia: cm ."
-10,5:PLOTR 0,-11:DRAWR 10,5 770 CALL &BBO6:RETURN >QB
450 PLOT 220,200:DRAWR 100,100 >XR 780 ' losange >ZH
460 LOCATE 26,10:PRINT "a":LOCATE 3 >WG 790 MODE 2:GOSUB 4670:GOSUB 4860 >TF
4,14:PRINT "a":LOCATE 34,10:PRINT " 800 PLOT 320,200,13:DRAWR -100,0:DR >RK
e" AWR 30,87:DRAWR 100,0:DRAWR -30,-87
470 fo1$=CHR$(24):fo2$="" :fo3$="" :f >HT 810 PLOT 220,200:DRAWR 0,-17:DRAWR >UV
o4$="" 100,0:DRAWR 0,17
480 fo=1 >YH 820 PLOT 220,200:DRAWR -13,4:DRAWR >VL
490 LOCATE #3,59,6:PRINT #3,fo1$;"A >XV R 8,14:DRAWR 16,0:PLOT 488,192:DRAW
=";CHR$(255):fo1$ R 8,-14:DRAWR 8,14:DRAWR 16,0
500 LOCATE #3,59,10:PRINT #3,fo2$;" >NR 830 PLOT 220,183:DRAWR 10,5:PLOTR 0 >JG
a= A";fo2$ ,-11:DRAWR -10,5:PLOT 320,183:DRAWR
510 LOCATE #3,59,14:PRINT #3,fo3$;" >PK -10,5:PLOTR 0,-11:DRAWR 10,5
e" A 2";fo3$ 840 PLOT 207,204:DRAWR -2,8:MOVER 2 >DH
520 LOCATE #3,59,18:PRINT #3,fo4$;" >NA -8:DRAWR 8,4:PLOT 237,291:DRAWR 2,
a=A";fo4$ -8:MOVER -2,8:DRAWR -8,-4
530 ' radicaux >RJ 850 PLOT 280,200:DRAWR 0,8:MOVER 0 >FH
540 PLOT 480,255,1:DRAWR 8,-14:DRAW >KT -79:DRAWR -8,0:DRAWR 0,-8
R 8,14:DRAWR 16,0:PLOT 488,192:DRAW 860 LOCATE 28,10:PRINT "a":LOCATE 3 >WU
R 8,-14:DRAWR 8,14:DRAWR 16,0 4,14:PRINT "a":LOCATE 36,10:PRINT "
550 IF INKEY(18)=0 THEN 650 >UN h"
560 IF INKEY(47)=0 THEN 590 >UV 870 ORIGIN 220,200:DEG:PLOT 20,0:FD >HP
570 IF INKEY(9)=0 THEN CLS:RETURN >CG R aZ=0 TO 70 STEP 10:DRAW 20*CDOS(aZ
580 GOTO 550 >ZK ),20*SIN(aZ):NEXT:ORIGIN 0,0
590 fo=fo+1:IF fo>4 THEN fo=1 >XG 880 LOCATE 30,12:PRINT CHR$(176) >ZQ
600 DN fo GOSUB 610,620,630,640:GOT >FL 890 fo1$=CHR$(24):fo2$="" :fo3$="" :f >NP
O 490 o4$="" :fo=1 >RW 900 LOCATE #3,59,6:PRINT #3,fo1$;"A >NR
610 fo1$=CHR$(24):fo2$="" :fo3$="" :f >RW a=";h";fo1$ >MR
620 fo2$=CHR$(24):fo1$="" :fo3$="" :f >RX 910 LOCATE #3,59,10:PRINT #3,fo2$;" >VC
o4$="" :RETURN A=";CHR$(255);"sin";CHR$(176):fo2$
630 fo3$=CHR$(24):fo1$="" :fo2$="" :f >RY 920 LOCATE #3,59,14:PRINT #3,fo3$;" >PQ
o4$="" :RETURN a=A/h";fo3$
640 fo4$=CHR$(24):fo1$="" :fo2$="" :f >RZ 930 LOCATE #3,59,18:PRINT #3,fo4$;" >NF
o3$="" :RETURN a=A";fo4$
650 CALL &BBO3:CLS#1:ON fo GOSUB 66 >NY 940 IF INKEY(18)=0 THEN 1040 >VJ
0,690,750,720:CLS#1:GOSUB 4770:GOSUB 950 IF INKEY(47)=0 THEN 980 >UV
B 4860:GOTO 470 >UB 960 IF INKEY(9)=0 THEN CLS:RETURN >CK
660 tab1=2:tab2=2:GOSUB 4330 >WV 970 GOTO 940 >XK
670 aire=ROUND(col^2,4):LOCATE #1,2 >TC 980 fo=fo+1:IF fo>4 THEN fo=1 >AF
6,6:PRINT#1,"L'aire est de :":PRINT 990 DN fo GOSUB 1000,1010,1020,1030 >JG
#1,aire;" cm";CHR$(255);" ." >XG :GOTO 900
680 CALL &BBO6:RETURN >QB 1000 fo1$=CHR$(24):fo2$="" :fo3$="" :f >TK
690 tab1=2:tab2=2:GOSUB 4640 >WC fo4$="" :RETURN
700 co=ROUND(SQR(aire),4):LOCATE #1 >YE 1010 fo2$=CHR$(24):fo1$="" :fo3$="" :f >TL
2,6:PRINT#1,"Le cote est de :":PRI fo4$="" :RETURN
NT #1,co;" cm ." >YD 1020 fo3$=CHR$(24):fo1$="" :fo2$="" :f >TM
710 CALL &BBO6:RETURN >QV fo4$="" :RETURN
720 tab1=2:tab2=2:GOSUB 4330 >WR 1030 fo4$=CHR$(24):fo1$="" :fo2$="" :f >TN
730 per=ROUND(col^4):LOCATE #1,2,6 >JG fo3$="" :RETURN
PRINT#1,"Le perimetre est":PRINT #1 1040 CALL &BBO3:CLS#1:ON fo GOSUB 1 >VL
, " de :";per;" cm ." >YD 050,1100,1170,1140:CLS#1:GOSUB 4770
740 CALL &BBO6:RETURN >QY :GOSUB 4860:GOTO 890
750 tab1=2:tab2=2:GOSUB 4330 >WV 1050 tab1=2:tab2=2:GOSUB 4330 >XL
760 dia=ROUND(col*SQR(2),4):LOCATE >UJ
1060 tab1=2:tab2=8:GOSUB 4460 >XY
1070 IF haut<col THEN LOCATE #1,1 >HM
:PRINT#1,CHR$(7):GOSUB 4460
1080 aire=ROUND(co*haut,4):LOCATE # >ZR
12,10:PRINT#1,"L'aire est de :":PR
INT #1,aire;" cm";CHR$(255);" ."
1090 CALL &BBO6:RETURN >RM
1100 tab1=2:tab2=2:GOSUB 4330 >XG
1110 tab1=2:tab2=8:GOSUB 4420 >XP
1120 aire=ROUND(col^2*SIN(angl),4): >NR
LOCATE #1,2,10:PRINT#1,"L'aire est
de :":PRINT #1,aire;" cm";CHR$(255)
;" ."
1130 CALL &BBO6:RETURN >RG
1140 tab1=2:tab2=2:GOSUB 4330 >XL
1150 per=ROUND(col^4):LOCATE #1,2,6 >XU
:PRINT#1,"Le perimetre est":PRINT #
1," de :";per;" cm ."
1160 CALL &BBO6:RETURN >RK
1170 tab1=2:tab2=2:GOSUB 4640 >XU
1180 tab1=2:tab2=8:GOSUB 4460 >XB
1190 IF haut<SQR(aire) THEN LOCATE >QJ
#1,1,1:PRINT#1,CHR$(7):GOTO 1180
1200 co=ROUND(aire/haut,4):LOCATE # >BM
1,2,10:PRINT#1,"Le cote est de :":P
RINT #1,co;" cm ."
1210 CALL &BBO6:RETURN >RF
1220 ' rectangle >XH
1230 MODE 2:GOSUB 4670:GOSUB 4860 >AX
1240 PLOT 420,200,13:DRAWR -200,0: >DF
DRAWR 0,100:DRAWR 200,0:DRAWR 0,-100
1250 PLOT 220,200:DRAWR -17,0:DRAWR >VN
0,100:DRAWR 17,0
1260 PLOT 203,200:DRAWR -5,10:PLOTR >PE
11,0:DRAWR -5,-10:PLOT 203,300:DR
AWR -5,-10:PLOTR 11,0:DRAWR -5,10
1270 PLOT 220,200:DRAWR 0,-17:DRAWR >VR
200,0:DRAWR 0,17
1280 PLOT 220,183:DRAWR 10,5:PLOTR >LR
0,-11:DRAWR -10,5:PLOT 420,183:DR
AWR -10,5:PLOTR 0,-11:DRAWR 10,5
1290 PLOT 220,200:DRAWR 200,100 >XD
1300 LOCATE 26,10:PRINT "b":LOCATE >WX
40,14:PRINT "a":LOCATE 40,9:PRINT "
e"
1310 fo1$=CHR$(24):fo2$="" :fo3$="" >AY
1320 fo=1 >DH
1330 LOCATE #3,59,8:PRINT #3,fo1$;" >PA
A=";a";fo1$
1340 LOCATE #3,59,13:PRINT #3,fo2$;" >WA
"= a";CHR$(255);"b";CHR$(255):fo
2$
1350 LOCATE #3,59,18:PRINT #3,fo3$;" >TB
"=2a+2b";fo3$
1360 ' radicaux >YC
1370 PLOT 480,208:DRAWR 8,-14:DRAWR >UA

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8,14:DRAW 50,0
1380 IF INKEY(18)=0 THEN 1470 >WL
1390 IF INKEY(47)=0 THEN 1420 >WJ
1400 IF INKEY(9)=0 THEN CLS:RETURN >CJ
1410 GOTO 1380 >MF
1420 fo=fo+1:IF fo>3 THEN fo=1 >XD
1430 ON fo GOSUB 1440,1450,1460:GOT >GQ
O 1330
1440 fo1$=CHR$(24):fo2$="":fo3$="": >JG
RETURN
1450 fo2$=CHR$(24):fo1$="":fo3$="": >JH
RETURN
1460 fo3$=CHR$(24):fo1$="":fo2$="": >JJ
RETURN
1470 CALL &BB03:CLS#1:ON fo GOSUB 1 >PM
480,1520,1560:CLS#1:GOSUB 4770:GOSU
B 4860:GOTO 1310
1480 tab1=2:tab2=2:GOSUB 4330 >XU
1490 tab1=2:tab2=6:GOSUB 4360 >XC
1500 aire=ROUND(co1*co2,4):LOCATE # >XK
1,2,8:PRINT#1,"L'aire est de ":"PRI
NT #1,aire;" cm";CHR$(255);" ."
1510 CALL &BB06:RETURN >RJ
1520 tab1=2:tab2=2:GOSUB 4330 >XN
1530 tab1=2:tab2=6:GOSUB 4360 >XX
1540 dia=ROUND(SQR(co1^2+co2^2),4): >JP
LOCATE #1,2,10:PRINT#1,"La diagonal
e est":PRINT #1," de ":";dia;" cm .
"
1550 CALL &BB06:RETURN >RN
1560 tab1=2:tab2=2:GOSUB 4330 >XT
1570 tab1=2:tab2=6:GOSUB 4360 >XB
1580 per=ROUND(co1*2+co2*2,4):LOCAT >ZC
E #1,2,10:PRINT#1,"Le perimetre est
":PRINT #1," de ":";per;" cm ."
1590 CALL &BB06:RETURN >RT
1600 ' PARALLELOGRAMME >XK
1610 MODE 2:GOSUB 4670:GOSUB 4860 >AZ
1620 PLOT 370,200,13:DRAW -150,0:D >TR
RAW 30,87:DRAW 150,0:DRAW -30,-8
7
1630 PLOT 220,200:DRAW 0,-17:DRAW >VW
150,0:DRAW 0,17
1640 PLOT 220,200:DRAW -13,4:DRAW >WH
30,87:DRAW 13,-4
1650 PLOT 220,183:DRAW 10,5:PLOTR >LX
0,-11:DRAW -10,5:PLOT 370,183:DRAW
R -10,5:PLOTR 0,-11:DRAW 10,5
1660 PLOT 207,204:DRAW -2,8:MOVER >EX
2,-8:DRAW 8,4:PLOT 237,291:DRAW 2
,-8:MOVER -2,8:DRAW -8,-4
1670 PLOT 320,200:DRAW 0,87:MOVER >GH
0,-79:DRAW -8,0:DRAW 0,-8
1680 LOCATE 28,10:PRINT "b":LOCATE >YM
38,14:PRINT "a":LOCATE 39,12:PRINT
"h"
1690 ORIGIN 220,200:DEG:PLOT 20,0:F >JF
DR a%=0 TO 70 STEP 10:DRAW 20*COS(a
%),20*SIN(a%):NEXT:ORIGIN 0,0
1700 LOCATE 30,12:PRINT CHR$(176):P >VM
LOT 220,200:DRAW 180,87:MOVER -150
,0:DRAW 120,-87:LOCATE 34,9:PRINT
"e2":LOCATE 45,9:PRINT "e1"
1710 fo1$=CHR$(24):fo2$="":fo3$="": >PZ
fo4$="":fo=1
1720 LOCATE #3,59,6:PRINT #3,fo1$;" >PH
A=a.h";fo1$
1730 LOCATE #3,59,10:PRINT #3,fo2$; >JL
"A=a.b.sin";CHR$(176);fo2$
1740 LOCATE #3,59,14:PRINT #3,fo3$; >FE
"e1= (a+h.cot";CHR$(176);")";CHR$(
255);"+h";CHR$(255);fo3$
1750 LOCATE #3,59,18:PRINT #3,fo4$; >FQ
"e2= (a-h.cot";CHR$(176);")";CHR$(
255);"+h";CHR$(255);fo4$
1760 ' radicaux >YG
1770 PLOT 488,128,1:DRAW 8,-14:DR >PK
AW 8,14:DRAW 120,0:PLOT 488,192:DR
AW 8,-14:DRAW 8,14:DRAW 120,0
1780 IF INKEY(18)=0 THEN 1880 >WW
1790 IF INKEY(47)=0 THEN 1820 >WT
1800 IF INKEY(9)=0 THEN CLS:RETURN >CN
1810 GOTO 1780 >ND
1820 fo=fo+1:IF fo>4 THEN fo=1 >XJ
1830 ON fo GOSUB 1840,1850,1860,187 >MA
0:GOTO 1720
1840 fo1$=CHR$(24):fo2$="":fo3$="": >TY
fo4$="":RETURN
1850 fo2$=CHR$(24):fo1$="":fo3$="": >TZ
fo4$="":RETURN
1860 fo3$=CHR$(24):fo1$="":fo2$="": >TA
fo4$="":RETURN
1870 fo4$=CHR$(24):fo1$="":fo2$="": >TB
fo3$="":RETURN
1880 CALL &BB03:CLS#1:ON fo GOSUB 1 >XH
890,1930,1980,2030:CLS#1:GOSUB 4770
:GOSUB 4860:GOTO 1710
1890 tab1=2:tab2=2:GOSUB 4330 >XZ
1900 tab1=2:tab2=8:GOSUB 4460 >XB
1910 aire=ROUND(co1*haut,4):LOCATE >AY
#1,2,10:PRINT#1,"L'aire est de ":"P
RINT #1,aire;" cm";CHR$(255);" ."
1920 CALL &BB06:RETURN >RP
1930 tab1=2:tab2=2:GOSUB 4330 >XU
1940 tab1=2:tab2=6:GOSUB 4360 >XC
1950 tab1=2:tab2=10:GOSUB 4420 >YV
1960 aire=ROUND(co1*co2*SIN(angl),4 >RY
):LOCATE #1,2,14:PRINT#1,"L'aire es
t de ":"PRINT #1,aire;" cm";CHR$(25
5);" ."
1970 CALL &BB06:RETURN >RV
1980 tab1=2:tab2=2:GOSUB 4330 >XZ
1990 tab1=2:tab2=6:GOSUB 4460 >XJ
2000 tab1=2:tab2=10:GOSUB 4420 >YF
2010 dia=ROUND(SQR((co1+haut+1/(TAN >GH
(angl)))^2+haut^2),4):LOCATE #1,2,1
2:PRINT#1,"La diagonale e1 est":PRI
NT #1," de ":";dia;" cm ."
2020 CALL &BB06:RETURN >RF
2030 tab1=2:tab2=2:GOSUB 4330 >XK
2040 tab1=2:tab2=6:GOSUB 4460 >XV
2050 tab1=2:tab2=10:GOSUB 4420 >YL
2060 dia=ROUND(SQR((co1-haut+1/(TAN >GR
(angl)))^2+haut^2),4):LOCATE #1,2,1
2:PRINT#1,"La diagonale e2 est":PRI
NT #1," de ":";dia;" cm ."
2070 CALL &BB06:RETURN >RL
2080 ' triangle >YC
2090 MODE 2:GOSUB 4670:GOSUB 4860 >AC
2100 PLOT 320,200,13:DRAW -100,0:D >BT
RAW 60,87:DRAW 40,-87
2110 PLOT 220,200:DRAW 0,-17:DRAW >VJ
-100,0:DRAW 0,17
2120 PLOT 220,183:DRAW 10,5:PLOTR >LJ
0,-11:DRAW -10,5:PLOT 320,183:DRAW
R -10,5:PLOTR 0,-11:DRAW 10,5
2130 PLOT 320,200:DRAW 14,8:DRAW >XQ
-40,87:DRAW -14,-8
2140 PLOT 334,208:DRAW 0,8:MOVER 0 >CK
,-8:DRAW -8,4:PLOT 294,295:DRAW 0
,-8:MOVER 0,8:DRAW 8,-4
2150 DEG:PLOT 312,218:FOR f=180 TO >ZG
250 STEP 10:DRAW 4*COS(f),4*SIN(f)
:NEXT
2160 PLOT 220,200:DRAW 0,87:DRAW >PT
60,0:MOVER -60,0:DRAW -5,-5:PLOTR
10,0:DRAW -5,5:MOVER 0,-82:DRAW 5
,5:PLOTR -10,0:DRAW 5,-5
2170 LOCATE 28,10:PRINT "h":LOCATE 3 >RG
4,14:PRINT "a":LOCATE 40,10:PRINT "b"
:LOCATE 37,12:PRINT CHR$(177);
2180 fo1$=CHR$(24):fo2$="":fo=1 >YZ
2190 LOCATE #3,59,6:PRINT #3,fo1$;" >UE
A=(a.h)/2";fo1$
2200 LOCATE #3,59,14:PRINT #3,fo2$; >FQ
"h=b.sin";CHR$(177);fo2$
2210 IF INKEY(18)=0 THEN 2290 >WE
2220 IF INKEY(47)=0 THEN 2250 >WD
2230 IF INKEY(9)=0 THEN CLS:RETURN >CL
2240 GOTO 2210 >MA
2250 fo=fo+1:IF fo>2 THEN fo=1 >XE
2260 ON fo GOSUB 2270,2280:GOTO 219 >CM
0
2270 fo1$=CHR$(24):fo2$="":fo3$="": >TW
fo4$="":RETURN
2280 fo2$=CHR$(24):fo1$="":fo3$="": >TX
fo4$="":RETURN
2290 CALL &BB03:CLS#1:ON fo GOSUB 2 >GN
300,2340:CLS#1:GOSUB 4770:GOSUB 486
0:GOTO 2180
2300 tab1=2:tab2=2:GOSUB 4330 >XK

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2310 tab1=2:tab2=8:GOSUB 4460 >XX
2320 aire=ROUND((col#haut)/2,4):LOC >XK
ATE #1,2,10:PRINT#1,"L'aire est de
:":PRINT #1,aire;" cm";CHR$(255);"
"
2330 CALL &BB06:RETURN >RK
2340 tab1=2:tab2=2:GOSUB 4360 >XT
2350 tab1=2:tab2=8:GOSUB 4440 >XZ
2360 haut=ROUND((col+co2)/2)#haut, >XK
DATE #1,2,10:PRINT#1,"La hauteur es
t de ":PRINT #1,haut;" cm."
2370 CALL &BB06:RETURN >XP
2380 "TRAPEZE >YF
2390 MODE 2:GOSUB 4670:GOSUB 4860:P >HJ
LDT 400,200,13:DRAWR -150,0:DRAWR 2
0,80:DRAWR 80,0:DRAWR 50,-80
2400 PLOT 400,200:DRAWR 0,-15:DRAWR >XD
-10,4:MOVER 0,-8:DRAWR 10,4:DRAWR
-150,0:DRAWR 10,4:MOVER 0,-8:DRAWR
-10,4:DRAWR 0,15
2410 PLOT 10,40:DRAWR 115,0:DRAWR >BF
-10,4:MOVER 0,-8:DRAWR 10,4:MOVER -
115,0:DRAWR 10,4:MOVER 0,-8:DRAWR -
10,4
2420 PLOT 350,280:DRAWR 0,15:DRAWR >XJ
-10,4:MOVER 0,-8:DRAWR 10,4:DRAWR -
80,0:DRAWR 10,4:MOVER 0,-8:DRAWR -1
0,4:DRAWR 0,-15
2430 PLOT 350,280:DRAWR 70,0:DRAWR >ZD
4,-10:MOVER 8,0:DRAWR -4,10:DRAWR 0
,-80:DRAWR -4,10:MOVER 8,0:DRAWR -4
,-10:DRAW 400,200
2440 LOCATE 0,7:PRINT "b":LOCATE 4 >FJ
0,10:PRINT "m":LOCATE 40,14:PRINT "
a":LOCATE 53,10:PRINT "h"
2450 fo1$=CHR$(24):fo2$="">fo3$="" >AE
2460 fo=1 >ED
2470 LOCATE #3,59,8:PRINT #3,fo1$; >YT
A=((a+b)/2).h;fo1$
2480 LOCATE #3,59,13:PRINT #3,fo2$; >XU
"A=m.h";fo2$
2490 LOCATE #3,59,18:PRINT #3,fo3$; >VB
"m=(a+b)/2";fo3$
2500 IF INKEY(18)=0 THEN 2590 >XK
2510 IF INKEY(47)=0 THEN 2540 >XH
2520 IF INKEY(9)=0 THEN CLS:RETURN >CN
2530 GOTO 2500 >XE
2540 fo=fo+1:IF fo>3 THEN fo=1 >XH
2550 DN fo GOSUB 2560,2570,2580:GOT >GP
0 2470
2560 fo1$=CHR$(24):fo2$="">fo3$="">JL
RETURN
2570 fo2$=CHR$(24):fo1$="">fo3$="">JM
RETURN
2580 fo3$=CHR$(24):fo1$="">fo2$="">JN
RETURN
2590 CALL &BB03:CLS#1:ON fo GOSUB 2 >PD
600,2650,2690:CLS#1:GOSUB 4770:GOSU
B 4860:GOTO 2450
2600 tab1=2:tab2=2:GOSUB 4330 >XX
2610 tab1=2:tab2=6:GOSUB 4360 >XX
2620 tab1=2:tab2=10:GOSUB 4460 >YU
2630 AIRE=ROUND((col+co2)/2)#haut, >XM
4):LOCATE #1,2,14:PRINT#1,"L'aire e
st de ":PRINT #1,aire;" cm";CHR$(2
55);" ."
2640 CALL &BB06:RETURN >RP
2650 tab1=2:tab2=2:GOSUB 4390 >XA
2660 tab1=2:tab2=8:GOSUB 4460 >XF
2670 AIRE=ROUND((101#haut),4):LOCAT >DZ
E #1,2,12:PRINT#1,"L'aire est de ":
:PRINT #1,aire;" cm";CHR$(255);" ."
2680 CALL &BB06:RETURN >RU
2690 tab1=2:tab2=2:GOSUB 4330 >XY
2700 tab1=2:tab2=8:GOSUB 4360 >XZ
2710 moy=(col+co2)/2:LOCATE #1,2,12 >DH
:PRINT#1,"La longueur m est de ":P
RINT #1,moy;" cm."
2720 CALL &BB06:RETURN >RN
2730 "cercle >YE
2740 MODE 2:GOSUB 4670:GOSUB 4860 >AE
2750 DEG:PLOT 380,200:FOR FX=0 TO 3 >MD
60 STEP 10:DRAW 320+60*COS(FX),200+
60*SIN(FX):NEXT
2760 PLOT 320,200:DRAWR -60,0 >WM
2770 PLOT 320,260:DRAWR 80,0:DRAWR >ZU
4,-10:MOVER -8,0:DRAWR 4,10:DRAWR 0
,-120:DRAWR 4,10:MOVER -8,0:DRAWR 4
,-10:DRAW 320,140
2780 LOCATE 37,13:PRINT "r":LOCATE >XK
51,13:PRINT "d"
2790 fo1$=CHR$(24):fo2$="">fo3$="">PJ
fo4$="">fo=1
2800 LOCATE #3,59,6:PRINT #3,fo1$; >ZT
A(("";CHR$(184);".d";CHR$(255);"/4"
);fo1$
2810 LOCATE #3,59,10:PRINT #3,fo2$; >RL
"A=";CHR$(184);".r";CHR$(255);fo2$
2820 LOCATE #3,59,14:PRINT #3,fo3$; >FB
"A=0,785*d";CHR$(255);fo3$
2830 LOCATE #3,59,18:PRINT #3,fo4$; >EL
"u=";CHR$(184);".d";fo4$
2840 IF INKEY(18)=0 THEN 2940 >WR
2850 IF INKEY(47)=0 THEN 2880 >MY
2860 IF INKEY(9)=0 THEN CLS:RETURN >CW
2870 GOTO 2840 >NJ
2880 fo=fo+1:IF fo>4 THEN fo=1 >XR
2890 ON fo GOSUB 2900,2910,2920,293 >MZ
0:GOTO 2800
2900 fo1$=CHR$(24):fo2$="">fo3$="">TW
fo4$="">RETURN
2910 fo2$=CHR$(24):fo1$="">fo3$="">TX
fo4$="">RETURN
2920 fo3$=CHR$(24):fo1$="">fo2$="">TY
fo4$="">RETURN
2930 fo4$=CHR$(24):fo1$="">fo2$="">TZ
fo3$="">RETURN
2940 CALL &BB03:CLS#1:ON fo GOSUB 2 >XK
950,2990,3020,3050:CLS#1:GOSUB 4770
:GOSUB 4860:GOTO 2790
2950 tab1=2:tab2=2:GOSUB 4540 >XA
2960 aire=ROUND((P1#d2^2)/4,4) >ZC
2970 LOCATE #1,2,6:PRINT#1,"L'aire >XT
est de ":PRINT #1,aire;" cm";CHR$(
255);" ."
2980 CALL &BB06:RETURN >RX
2990 tab1=2:tab2=2:GOSUB 4480 >XH
3000 aire=ROUND((P1#ra^2),4):LOCATE >AT
#1,2,6:PRINT#1,"L'aire est de ":P
RINT #1,aire;" cm";CHR$(255);" ."
3010 CALL &BB06:RETURN >RF
3020 tab1=2:tab2=2:GOSUB 4540 >XN
3030 aire=ROUND((0,785#d2^2),4):LOC >EE
ATE #1,2,6:PRINT#1,"L'aire est de
:":PRINT #1,aire;" cm";CHR$(255);"
."
3040 CALL &BB06:RETURN >RJ
3050 tab1=2:tab2=2:GOSUB 4540 >XR
3060 per=ROUND(P1#D2,4):LOCATE #1,2 >BQ
,6:PRINT#1,"Le perimetre est":PRINT
#1," de ":PRINT #1,per;" cm."
3070 CALL &BB06:RETURN >RM
3080 "couronne >YD
3090 MODE 2:GOSUB 4670:GOSUB 4860 >AD
3100 DEG:PLOT 380,200:FOR FX=0 TO 3 >ZA
60:PLOT 320+60*COS(FX),200+60*SIN(F
X):DRAWR -10*COS(FX),-10*SIN(FX):NE
XT
3110 PLOT 320,260:DRAWR 80,0:DRAWR >ZG
4,-10:MOVER -8,0:DRAWR 4,10:DRAWR 0
,-120:DRAWR 4,10:MOVER -8,0:DRAWR 4
,-10:DRAW 320,140
3120 PLOT 320,250:DRAWR -80,0:DRAWR >AW
4,-10:MOVER -8,0:DRAWR 4,10:DRAWR
0,-100:DRAWR 4,10:MOVER -8,0:DRAWR
4,-10:DRAW 320,150
3130 LOCATE 30,13:PRINT "d":LOCATE >TW
50,13:PRINT"D"
3140 LOCATE #3,59,12:PRINT #3,CHR$( >NZ
24);"A=";CHR$(184);"/4). (D);CHR$(2
55);"-d";CHR$(255);";";CHR$(24)
3150 IF INKEY(18)=0 THEN 3180 >MH
3160 IF INKEY(9)=0 THEN CLS:RETURN >CP
3170 GOTO 3150 >MH
3180 CALL &BB03:CLS#1:tab1=2:tab2=2 >PU
:GOSUB 4540
3190 tab1=2:tab2=6:GOSUB 4510 >XY
3200 IF d>d1 THEN LOCATE #1,1,1:PR >ZG
INT CHR$(7):GOTO 3180
3210 aire=ROUND((P1/4)*(d1^2-d2^2), >FT
```



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4)
3220 LOCATE #1,2,10:PRINT#1,"L'aire >LE
est de :":PRINT #1,aire;" cm";CHR$(
(255));" ."
3230 CALL &BB06:CLS#1:GOSUB 4770:GO >WH
SUB 4860:GOTO 3140
3240 'secteur >YB
3250 MODE 2:GOSUB 4670:GOSUB 4860 >AB
3260 DEG:PLOT 380,200:FOR F%=0 TO 3 >MA
60 STEP 10:DRAW 320+60*COS(F%),200+
60*SIN(F%):NEXT
3270 FOR F%=45 TO 135:PLOT 320,200: >NB
DRAW 60*COS(F%),60*SIN(F%):NEXT
3280 PLOT 320+60*COS(160),200+60*SI >CQ
N(160):DRAW 320+60*COS(340),200+60*
SIN(340)
3290 PLOT 320+60*COS(45),200+60*SIN >AQ
(45):DRAW 320+120*COS(45),200+120*S
IN(45)
3300 PLOT 320+80*COS(45),200+80*SIN >FM
(45)
3310 FOR F%=45 TO 135 STEP 10:DRAW >QK
320+80*COS(F%),200+80*SIN(F%):NEXT
3320 PLOT 320+120*COS(45),200+120*S >HD
IN(45)
3330 FOR F%=45 TO 135 STEP 10:DRAW >TR
320+120*COS(F%),200+120*SIN(F%):NEX
T
3340 DRAW 320+60*COS(135),200+60*SI >GF
N(45)
3350 LOCATE 41,5:PRINT CHR$(176) >ZM
3360 LOCATE 41,8:PRINT "b" >UJ
3370 LOCATE 45,14:PRINT "d" >VK
3380 fo1$=CHR$(24):fo2$="":fo=1 >YC
3390 LOCATE #3,59,8:PRINT #3,fo1$;" >UJ
A=(b.d)/4";fo1$
3400 LOCATE #3,59,16:PRINT #3,fo2$; >EK
"b=d.";CHR$(184);" (";CHR$(176);"/3
60");fo2$
3410 IF INKEY(18)=0 THEN 3490 >WL
3420 IF INKEY(47)=0 THEN 3450 >WK
3430 IF INKEY(9)=0 THEN CLS:RETURN >CP
3440 GOTO 3410 >MG
3450 fo=fo+1:IF fo>2 THEN fo=1 >XH
3460 ON fo GOSUB 3470,3480:GOTO 339 >CA
0
3470 fo1$=CHR$(24):fo2$="":RETURN >BM
3480 fo2$=CHR$(24):fo1$="":RETURN >BN
3490 CALL &BB03:CLS#1:ON fo GOSUB 3 >GB
500,3540:CLS#1:GOSUB 4770:GOSUB 486
0:GOTO 3380
3500 tab1=2:tab2=2:GOSUB 4540 >XR
3510 tab1=2:tab2=6:GOSUB 4570 >XA
3520 aire=ROUND((d2*arc)/4,4):LOCAT >DF
E #1,2,10:PRINT#1,"L'aire est de :
:PRINT #1,aire;" cm";CHR$(255);" ."
3530 CALL &BB06:RETURN >RN
3540 tab1=2:tab2=2:GOSUB 4540 >XW
3550 tab1=2:tab2=6:GOSUB 4420 >XY
3560 arc=ROUND((d2*PI)*(angl/360),4 >VR
):LOCATE #1,2,10:PRINT #1,"L'arc b
a une longueur":PRINT #1," de :";ar
c;" cm."
3570 CALL &BB06:RETURN >RT
3580 ' segment circulaire >YJ
3590 MODE 2:GOSUB 4670:GOSUB 4860 >AJ
3600 DEG:PLOT 380,200:FOR F%=0 TO 3 >LT
60 STEP 5:DRAW 320+60*COS(F%),200+6
0*SIN(F%):NEXT
3610 FOR F%=30 TO 90 STEP 2:PLOT 32 >DN
0+60*COS(F%),200+60*SIN(F%):DRAW 32
0+60*COS(180-F%),200+60*SIN(180-F%)
:NEXT
3620 PLOT 320+60*COS(30),200+60*SIN >AL
(30):DRAW 320+120*COS(30),200+120*S
IN(30)
3630 FOR F%=30 TO 150 STEP 10:DRAW >QF
320+80*COS(F%),200+80*SIN(F%):NEXT
3640 PLOT 320+120*COS(30),200+120*S >GE
IN(30)
3650 FOR F%=30 TO 150 STEP 10:DRAW >TM
320+120*COS(F%),200+120*SIN(F%):NEX
T
3660 DRAW 320+60*COS(150),200+60*SI >GB
N(150)
3670 PLOT 320+60*COS(30),200+60*SIN >GR
(30):DRAW 0,-40:DRAW 8,4:MOVER 0
,-8:DRAW 8,4:DRAW 320+60*COS(150),
160+60*SIN(30):DRAW 8,4:MOVER 0,-8
:DRAW -8,4:DRAW 0,40
3680 PLOT 380,200:DRAW 0,-80:DRAW >UY
-8,4:MOVER 0,-8:DRAW 8,4:DRAW -1
20,0:DRAW 8,4:MOVER 0,-8:DRAW -8,
4:DRAW 260,200
3690 PRINT CHR$(23);CHR$(1);:PLOT 3 >PC
20,260:DRAW 0,-30:DRAW -2,4:MOVER
4,0:DRAW -2,-4:MOVER 0,30:DRAW -
2,-4:MOVER 4,0:DRAW -2,4
3700 LOCATE 39,10:PRINT CHR$(24);"h >PR
";CHR$(24);
3710 PRINT CHR$(23);CHR$(0); >WL
3720 LOCATE 40,13:PRINT "s":LOCATE >UC
40,18:PRINT "d"
3730 LOCATE 41,5:PRINT CHR$(176):LO >YZ
CATE 41,8:PRINT "b"
3740 fo1$=CHR$(24):fo2$="":fo3$="": >FK
fo=1
3750 LOCATE #3,59,6:PRINT #3,fo1$;" >QU
A=(b.d)/4)-"
3760 LOCATE #3,59,7:PRINT #3," (s(d >RU
-2h)/4));fo1$
3770 LOCATE #3,59,11:PRINT #3,fo2$; >ZG
"h=(d/2). (1-cos(";CHR$(176);"/2))";
fo2$
3780 LOCATE #3,59,16:PRINT #3,fo3$; >PP
"s=d.sin(";CHR$(176);"/2));fo3$
3790 IF INKEY(18)=0 THEN 3880 >WB
3800 IF INKEY(47)=0 THEN 3830 >WP
3810 IF INKEY(9)=0 THEN CLS:RETURN >CR
3820 GOTO 3790 >NK
3830 fo=fo+1:IF fo>3 THEN fo=1 >XL
3840 ON fo GOSUB 3850,3860,3870:GOT >GE
O 3750
3850 fo1$=CHR$(24):fo2$="":fo3$="": >JF
RETURN
3860 fo2$=CHR$(24):fo1$="":fo3$="": >JQ
RETURN
3870 fo3$=CHR$(24):fo1$="":fo2$="": >JR
RETURN
3880 CALL &BB03:CLS#1:ON fo GOSUB 3 >PT
890,3970,4020:CLS#1:GOSUB 4770:GOSU
B 4860:GOTO 3740
3890 tab1=2:tab2=2:GOSUB 4540 >XE
3900 tab1=2:tab2=6:GOSUB 4600 >XX
3910 tab1=2:tab2=10:GOSUB 4460:IF h >MC
aut>d2 THEN LOCATE #1,1,1:PRINT CHR
$(7):GOTO 3910
3920 tab1=2:tab2=14:GOSUB 4570 >YE
3930 aire1=ROUND(((arc*d2)/4),4) >AL
3940 aire2=ROUND((seg*(d2-2*haut)/4 >HH
),4):IF aire2>aire1 THEN CLS#1:PRIN
T #1:FOR f=1 TO 8:PRINT #1,"DONNEES
INVALIDES":PRINT #1," RECOMMENCEZ
S.V.P.":NEXT:FOR G=1 TO 3000:NEXT:R
ETURN
3950 aire=ROUND(aire1-aire2,4):LOCA >FT
TE #1,2,20:PRINT#1,"L'aire est de :
":PRINT #1,aire;" cm";CHR$(255);" ."
"
3960 CALL &BB06:RETURN >RW
3970 tab1=2:tab2=2:GOSUB 4540 >XD
3980 tab1=2:tab2=6:GOSUB 4420 >XF
3990 HAUT=ROUND((D2/2)*(1-COS(ANGL/ >KR
2)),4)
4000 LOCATE #1,2,10:PRINT#1,"La hau >AK
teur est de :":PRINT #1,hauteur;" cm."
4010 CALL &BB06:RETURN >RG
4020 tab1=2:tab2=2:GOSUB 4540 >XP
4030 tab1=2:tab2=6:GOSUB 4420 >XR
4040 SEG=ROUND(D2*SIN(ANGL/2),4):LO >MR
CATE #1,2,10:PRINT#1,"La mesure du"
:PRINT #1," segment s est de:":PRIN
T #1,seg;" cm."
4050 CALL &BB06:RETURN >RL
4060 ' ellipse >YC
4070 MODE 2:GOSUB 4670:GOSUB 4860 >AC
4080 DEG:PLOT 340,200:FOR F%=0 TO 3 >MT
60 STEP 5:DRAW 320+20*COS(F%),200+1
00*SIN(F%):NEXT

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4090 PLOT 300,200:DRAWR 8,4:MOVER 0 >ZW
,-8:DRAWR -8,4:DRAWR 40,0:DRAWR -8,
4:MOVER 0,-8:DRAWR 8,4
4100 PLOT 320,300:DRAWR -50,0:DRAWR >PD
-4,-8:MOVER 8,0:DRAWR -4,8:DRAWR 0
,-200:DRAWR -4,8:MOVER 8,0:DRAWR -4
,-8:MOVER -4,0:DRAWR 50,0
4110 LOCATE 34,13:PRINT "D":LOCATE >TC
41,13:PRINT "d"
4120 fo1$=CHR$(24):fo2$="" :fo=1 >YV
4130 LOCATE #3,59,B:PRINT #3,fo1$;" >KD
A=(D.d.);CHR$(184);"/4":fo1$
4140 LOCATE #3,59,16:PRINT #3,fo2$; >KH
"u=((D+d)/2).";CHR$(184):fo2$
4150 IF INKEY(18)=0 THEN 4230 >WF
4160 IF INKEY(47)=0 THEN 4190 >WP
4170 IF INKEY(9)=0 THEN CLS:RETURN >CR
4180 GOTO 4150 >NA
4190 fo=fo+1:IF fo/2 THEN fo=1 >XK
4200 DN fo GOSUB 4210,4220:GOTO 413 >BD
0
4210 fo1$=CHR$(24):fo2$="" :RETURN >BE
4220 fo2$=CHR$(24):fo1$="" :RETURN >BF
4230 CALL &BB03:CLS#1:GOSUB 4240:CL >TQ
S#1:GOSUB 4770:GOSUB 4860:GOTO 4120

4240 tab1=2:tab2=2:GOSUB 4510 >XQ
4250 tab1=2:tab2=6:GOSUB 4540 >XZ
4260 IF d1<d2 THEN PRINT CHR$(7);:C >RY
LS#1:GOTO 4240
4270 DN fo GOSUB 4280,4300:RETURN >BC
4280 aire=ROUND((d1+d2*P1)/4,4):LOC >GT
ATE #1,2,10:PRINT#1,"L'aire est de
:" :PRINT #1,aire;" cm";CHR$(255);"
."
4290 CALL &BB06:RETURN >RT
4300 per=ROUND(((d1+d2)/2)*PI,4):LO >ZE
CATE #1,2,10:PRINT#1,"Le perimetre
est":PRINT #1, " de " :per;" cm."
4310 CALL &BB06:RETURN >RK
4320 END >YH
4330 LOCATE #1,tab1,tab2:PRINT#1,"E >LA
NTREZ LE COTE a en":PRINT#1," cm -
->";:LINE INPUT#1,"",co1$
4340 co1=VAL(co1$):IF co1=0 THEN LO >VF
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 43
30
4350 RETURN >FF
4360 LOCATE #1,tab1,tab2:PRINT#1,"E >LF
NTREZ LE COTE b en":PRINT#1," cm -
->";:LINE INPUT#1,"",co2$
4370 co2=VAL(co2$):IF co2=0 THEN LO >W6
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 43
60
4380 RETURN >FJ
4390 LOCATE #1,tab1,tab2:PRINT#1,"E >TF
NTREZ LA LONGUEUR m":PRINT#1," en c
m -->";:LINE INPUT#1,"",lo1$
4400 lo1=VAL(lo1$):IF lo1=0 THEN LO >ME
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 43
90
4410 RETURN >FC
4420 LOCATE #1,tab1,tab2:PRINT#1,"E >CX
NTREZ L'ANGLE " :CHR$(176):PRINT#1,"
en DEGRES -->";:LINE INPUT#1,ang1
$ :ang1=VAL(ang1$):IF ang1=0 THEN LO
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 44
20
4430 RETURN >FE
4440 LOCATE #1,tab1,tab2:PRINT#1,"E >CC
NTREZ L'ANGLE " :CHR$(177):PRINT#1,"
en DEGRES -->";:LINE INPUT#1,ang1
$ :ang1=VAL(ang1$):IF ang1=0 THEN LO
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 44
40
4450 RETURN >FG
4460 LOCATE #1,tab1,tab2:PRINT#1,"E >CV
NTREZ LA HAUTEUR":PRINT#1," en cm
-->";:LINE INPUT#1,haut$:haut=VAL(
haut$):IF haut=0 THEN LOCATE #1,1,1
:PRINT#1,CHR$(7):GOTO 4460
4470 RETURN >FJ
4480 LOCATE #1,tab1,tab2:PRINT#1,"E >LZ
NTREZ LE RAYON r en":PRINT#1," cm
-->";:LINE INPUT#1,"",ra$
4490 ra=VAL(ra$):IF ra=0 THEN LOCAT >NH
E #1,1,1:PRINT CHR$(7):GOTO 4480
4500 RETURN >FC
4510 LOCATE #1,tab1,tab2:PRINT#1,"E >PT
NTREZ LE DIAMETRE D":PRINT#1," en c
m -->";:LINE INPUT#1,"",D1$
4520 D1=VAL(D1$):IF D1=0 THEN LOCAT >MF
E #1,1,1:PRINT CHR$(7):GOTO 4510
4530 RETURN >FF
4540 LOCATE #1,tab1,tab2:PRINT#1,"E >FG
NTREZ LE DIAMETRE d":PRINT#1," en c
m -->";:LINE INPUT#1,"",D2$
4550 D2=VAL(D2$):IF D2=0 THEN LOCAT >MQ
E #1,1,1:PRINT CHR$(7):GOTO 4540
4560 RETURN >FJ
4570 LOCATE #1,tab1,tab2:PRINT#1,"E >YU
NTREZ LA LONGUEUR":PRINT#1," D'ARC
b en cm":PRINT #1," -->";:LINE INPU
T#1,"",arc$
4580 arc=VAL(arc$):IF arc=0 THEN LO >TY
CATE #1,1,1:PRINT CHR$(7):GOTO 4570
4590 RETURN >GB
4600 LOCATE #1,tab1,tab2:PRINT#1,"E >RX
NTREZ LE SEGMENT s":PRINT#1," en c
m -->";:LINE INPUT#1,"",seg$
4610 seg=VAL(seg$):IF seg=0 THEN LO >TP
CATE #1,1,1:PRINT CHR$(7):GOTO 4600

4620 IF seg<d2 THEN LOCATE #1,1,1:P >AA
RINT CHR$(7):GOTO 4600
4630 RETURN >FG
4640 LOCATE #1,tab1,tab2:PRINT#1,"E >DK
NTREZ L'AREE en":PRINT#1," cm";CHR
$(255);" -->";:LINE INPUT#1,"",aire
$
4650 aire=VAL(aire$):IF aire=0 THEN >AD
LOCATE #1,1,1:PRINT#1,CHR$(7):GOTO
4640
4660 RETURN >FK
4670 " >YK
4680 " dessin contour ecran >ZA
4690 " >ZB
4700 MODE 2:DRIGIN 0,0:PLOT 0,0,13: >MN
DRAWR 639,0:DRAWR 0,399:DRAWR -639,
0:DRAWR 0,-399
4710 PLOT 3,3:DRAWR 633,0:DRAWR 0,3 >HE
933:DRAWR -633,0:DRAWR 0,-393
4720 PLOT 4,80:DRAWR 631,0:PLOTR 0, >TJ
-3:DRAWR -631,0
4730 PLOT 165,3:DRAWR 0,74:PLOTR 3, >QZ
0:DRAWR 0,-74
4740 PLOT 440,80:DRAWR 0,317:PLOTR >VK
-3,0:DRAWR 0,-317
4750 PLOT 440,355:DRAWR 194,0:PLOTR >WW
0,-3:DRAWR -194,0
4760 LOCATE 64,2:PRINT "FORMULES" >CD
4770 WINDOW #1,2,23,2,19:PAPER #1,1 >RK
:PEN #1,0:CLS #1
4780 LOCATE #1,3,3:PRINT#1,"CHOISIS >UF
SEZ LA BONNE"
4790 LOCATE #1,3,5:PRINT#1,"FORMULE >RE
AVEC LA"
4800 LOCATE #1,3,7:PRINT#1,"BARR E >DZ
'ESPACEMENT."
4810 LOCATE #1,3,13:PRINT#1,"CECI F >UT
AIT , VALIDEZ"
4820 LOCATE #1,3,15:PRINT#1,"PAR EN >JT
TER ."
4830 WINDOW #2,57,79,5,19:PAPER #2, >UA
0:PEN #2,1:CLS #2
4840 WINDOW #4,23,79,22,24:PAPER #4 >UD
,0:PEN #4,1:CLS #4
4850 LOCATE 2,23:PRINT "COPY=RETOUR >ZC
AU MENU":RETURN
4860 LOCATE #4,1,1:PRINT#4,"A:SURF. >QA
,SECT. a:LONG. b:LARG. r,R:RAYON
d,D:DIAM."
4870 LOCATE #4,1,3:PRINT#4,"s:EPAIS >UX
. e:DIAG. u=PERI. h=HAUT. ";CHR
$(176);":ANGLE"
4880 RETURN >GD
4890 MODE 2:PRINT:PRINT#1 "VALEUR >PH
TREE ERRONEE ... UNE TOUCHE POUR RE
COMMENCER ...":CALL &BB03:CALL &BB0
6:PRINT CHR$(7):RUN
```