

VOLUMES

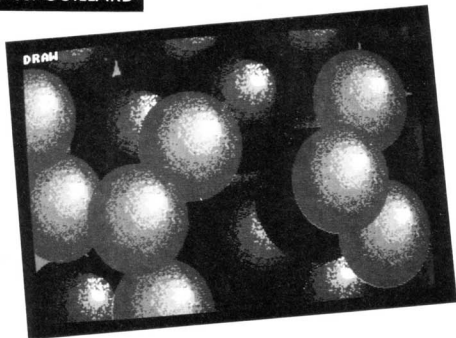
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Valable pour

X CPC 464
X CPC 664
X CPC 6128

Chose promise, chose due. Après avoir totalement exploré les surfaces, il reste encore à tâter les volumes. (Attention pas ceux de l'Encyclopaedia Universalis ni ceux de Kartine : c'est défendu !).

La troisième dimension vous apportera certainement de grandes joies. Le mode d'emploi du programme est similaire à celui de son prédécesseur et de toute façon très accessible.



```

10 ON ERROR GOTO 5620 >PP
20 ' >LB
30 ' SURFACES >LC
40 ' >LD
50 ' MENU PRINCIPAL >LE
60 ' >LF
70 MODE 2:SU%=CHR$(24):SURF=1:GOSUB >JZ
5580
80 LOCATE 26,6:PRINT SU%:"CUBE":SU% >AX
;SPC(11):SU1%:"PARALLELEPIPEDE":SU1
$
90 LOCATE 26,8:PRINT SU2%:"CYLINDRE >BY
":SU2%;SPC(7):SU3%:"CYLINDRE CREUX"

:SU3$
100 LOCATE 26,10:PRINT SU4%:"PYRAMI >NX
DE":SU4%;SPC(7):SU5%:"TRONC DE PYRA
MIDE":SU5$
110 LOCATE 26,12:PRINT SU6%:"CONE": >BR
SU6%;SPC(11):SU7%:"TRONC DE CONE":S
U7$
120 LOCATE 26,14:PRINT SU8%:"SPHERE >LT
":SU8%;SPC(9):SU9%:"CALOTTE SPHERIQ
UE":SU9$
130 LOCATE 26,16:PRINT SU10%:"TONNE >NT
AU":SU10%;SPC(8):SU11%:"ZONE SPHERI
QUE":SU11$
140 ' >RF
150 ' CHOIX >RG
160 ' >RH
170 IF INKEY(8)=0 THEN SURF=SURF-1: >LG
GOTO 240
180 IF INKEY(0)=0 THEN SURF=SURF-2: >LA
GOTO 240
190 IF INKEY(1)=0 THEN SURF=SURF+1: >LJ
GOTO 250
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 >PX
UB 400,770,1180,1540,1930,2400,2670
,3110,3590,3860,4230,4590:GOTO 80
230 GOTO 170 >YK
240 IF SURF<1 THEN SURF=12 >VN
250 IF SURF>12 THEN SURF=1 >VP
260 ON SURF GOSUB 270,280,290,300,3 >UP
10,320,330,340,350,360,370,380:GOTO
80
270 SU%=CHR$(24):SU1%="":SU2%="":SU >DD
11%="":SU10%="":RETURN
280 SU1%=CHR$(24):SU%="":SU2%="":SU >CB
3%="":SU11%="":RETURN
290 SU2%=CHR$(24):SU%="":SU1%="":SU >BA
3%="":SU4%="":RETURN
300 SU3%=CHR$(24):SU1%="":SU2%="":SU >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 >DV
U9%="":SU11%="":RETURN

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380 SU11#CHR$(24):SU10#"" :SU9#"" >DN
:SU8#"" :SU1#"" :RETURN
390 ' cube >TC
400 MODE 2:GOSUB 5400:GOSUB 5590 >TM
410 PLOT 320,200,13:DRAW# -100,0:DR >PM
AWR 0,100:DRAW# 100,0:DRAW# 0,-100
420 PLOT 220,200:DRAW# -17,0:DRAW# >UR
0,100:DRAW# 17,0
430 PLOT 203,200:DRAW# -5,10:PLOTR >ME
11,0:DRAW# -5,-10:PLOT 203,300:DRAW#
F -5,-10:PLOTR 11,0:DRAW# -5,10
440 PLOT 220,200:DRAW# 0,-17:DRAW# >UU
100,0:DRAW# 0,17
450 PLOT 220,183:DRAW# 10,5:PLOTR 0 >JE
,-11:DRAW# -10,5:PLOT 320,183:DRAW#
-10,5:PLOTR 0,-11:DRAW# 10,5
460 PLOT 320,200:DRAW# -70,120 >XZ
470 PLOT 350,220:DRAW# -100,0:DRAW# >XK
0,100:DRAW# 100,0:DRAW# 0,-100
480 PLOT 320,200:DRAW# 350,220:PLOT >WT
220,200:DRAW# 250,220:PLOT 220,300:DR
AW# 250,320:PLOT 320,300:DRAW# 350,3
20
490 LOCATE 35,10:PRINT "a":LOCATE 3 >VZ
4,14:PRINT "a":LOCATE 35,9:PRINT "e
"
500 fo1#CHR$(24):fo2#"" :fo3#"" >ZU
510 fo=1 >YB
520 LOCATE #3,59,6:PRINT #3,fo1#:"V >XK
#a":CHR$(254):fo1#
530 LOCATE #3,59,12:PRINT #3,fo2#:" >BN
#b#a":CHR$(255):fo2#
540 LOCATE #3,59,18:PRINT #3,fo3#:" >FU
#e# 3':fo3#
550 ' radicaux >TA
560 PLOT 486,128:DRAW# 8,-14:DRAW# >TU
6,14:DRAW# 16,0
570 IF INKEY(18)=0 THEN 660 >UR
580 IF INKEY(47)=0 THEN 610 >UF
590 IF INKEY(9)=0 THEN CLS:RETURN >CJ
600 GOTO 500 >ZE
610 fo=fo+1:IF fo/3 THEN fo=1 >MS
620 ON fo GOSUB 630,640,650:GOTO 52 >CL
0
630 fo1#CHR$(24):fo2#"" :fo3#"" :R >HV
RETURN
640 fo2#CHR$(24):fo1#"" :fo3#"" :R >HM
RETURN
650 fo3#CHR$(24):fo1#"" :fo2#"" :R >HX
RETURN
660 CALL $BB03:CLS#1:ON fo GOSUB 67 >GN
0,700,730:CLS#1:GOSUB 5500:GOSUB 55
90:GOTO 500
670 tab1=2:tab2=2:GOSUB 5010 >WR
680 volu=ROUND(COI*3,4):LOCATE #1,2 >FY
,8:PRINT#1,"Le volume est de :":PRI
NT #1," :":volu:" cm":CHR$(254):" ."
690 CALL $BB06:RETURN >QC
700 tab1=2:tab2=2:GOSUB 5010 >WK
710 AIRE=ROUND(6*COI*2,4):LOCATE #1 >BX
,2,8:PRINT#1,"La surface totale":PR
INT #1," est de :":aire:" cm":CHR$(
255):" ."
720 CALL $EB06:RETURN >QW
730 tab1=2:tab2=2:GOSUB 5010 >WN
740 dia=ROUND(COI+SQR(3),4):LOCATE >QH
#1,2,8:PRINT#1,"La diagonale est de
":PRINT #1," :":dia:" cm ."
750 CALL $BB06:RETURN >QZ
760 ' parallelepiped >ZY
770 MODE 2:GOSUB 5400:GOSUB 5590 >TD
780 PLOT 320,200,13:DRAW# -100,0:DR >HK
AWR 0,50:DRAW# 100,0:DRAW# 0,-50:DR
AWR 50,30:DRAW# 0,50:DRAW# -100,0:D
RAW# 0,-50:DRAW# 100,0
790 PLOT 220,200:DRAW# 50,30:PLOT 3 >CB
20,250:DRAW# 50,30:PLOT 220,250:DR
AW# 50,30
800 PLOT 320,200:DRAW# 0,-10:DRAW# >NM
-8,4:MOVE# 0,-8:DRAW# 8,4:DRAW# -10
0,0:DRAW# 8,4:MOVE# 0,-8:DRAW# -8,4
:DRAW# 0,10
810 PLOT 320,200:DRAW# 20,0:DRAW# 5 >UT
0,30:DRAW# -20,0
820 PLOT 320,200:DRAW# -50,80 >WB
830 PLOT 220,200:DRAW# -20,0:DRAW# >NT
-4,8:MOVE# 0,0:DRAW# -4,-8:DRAW# 0,
50:DRAW# 20,0
840 LOCATE 25,11:PRINT" h":LOCATE 34 >DF
,14:PRINT" a":LOCATE 46,12:PRINT" b":
LOCATE 38,11:PRINT " e"
850 fo1#CHR$(24):fo2#"" :fo3#"" >ZC
860 fo=1 >YK
870 LOCATE #3,59,6:PRINT #3,fo1#:"V >XC
#a,b,h":fo1#
880 LOCATE #3,59,12:PRINT #3,fo2#:" >BG
#o=2:(a*b*h+ah)":fo2#
890 LOCATE #3,59,18:PRINT #3,fo3#:" >QT
#e# a":CHR$(255):" #b":CHR$(255):" #h"
:CHR$(255):fo3#
900 ' radicaux >RK
910 PLOT 478,128:DRAW# 6,-14:DRAW# >TQ
6,14:DRAW# 64,0
920 IF INKEY(18)=0 THEN 1010 >VD
930 IF INKEY(47)=0 THEN 960 >VH
940 IF INKEY(9)=0 THEN CLS:RETURN >CX
950 GOTO 920 >AB
960 fo=fo+1:IF fo/3 THEN fo=1 >XG
970 ON fo GOSUB 980,990,1000:GOTO 8 >DT
70
980 fo1#CHR$(24):fo2#"" :fo3#"" :R >HD
RETURN
990 fo2#CHR$(24):fo1#"" :fo3#"" :R >HE
RETURN
EURN
1000 fo3#CHR$(24):fo1#"" :fo2#"" : >JY
RETURN
1010 CALL $BB03:CLS#1:ON fo GOSUB 1 >ME
020,1070,1120:CLS#1:GOSUB 5500:GOSUB
B 5590:GOTO 850
1020 TAB1=2:TAB2=2:GOSUB 5010 >XD
1030 TAB1=2:TAB2=6:GOSUB 5040 >XM
1040 TAB1=2:TAB2=10:GOSUB 5170 >YM
1050 VOL=ROUND(COI+C02+HAUT,4):LOCA >TB
TE #1,2,14:PRINT#1,"Le volume est d
e :":PRINT #1," :":volu:" cm":CHR$(25
4):" ."
1060 CALL $BB06:RETURN >RJ
1070 TAB1=2:TAB2=2:GOSUB 5010 >XJ
1080 TAB1=2:TAB2=6:GOSUB 5040 >XT
1090 TAB1=2:TAB2=10:GOSUB 5170 >YT
1100 AIRI=ROUND(2*(COI+C02)+(C02+H
AUT)*(COI+HAUT),4):LOCATE #1,2,14:
PRINT#1,"L'aire totale est de":PRINT #
1," de":airi:" cm":CHR$(255):" ."
1110 CALL $BB06:RETURN >RE
1120 TAB1=2:TAB2=2:GOSUB 5010 >XE
1130 TAB1=2:TAB2=6:GOSUB 5040 >XN
1140 TAB1=2:TAB2=10:GOSUB 5170 >YX
1150 dia=ROUND(SQR(COI*2+C02*2+haut >YU
(2),4):LOCATE #1,2,14:PRINT#1,"La d
iagonale est de":PRINT #1," :":dia:"
cm ."
1160 CALL $BB06:RETURN >RX
1170 ' cylindre >YB
1180 MODE 2:GOSUB 5400:GOSUB 5590 >AU
1190 DEG >YC
1200 PLOT 360,180:FOR f%=-1 TO 360 S >FE
TEP 10:DRAW 320+40+COS(f%),180+20+S
IN(f%):NEXT
1210 PLOT 360,360:FOR f%=-1 TO 360 S >FF
TEP 10:DRAW 320+40+COS(f%),360+20+S
IN(f%):NEXT
1220 PLOT 360,180:DRAW# 0,180:PLOT >XH
280,180:DRAW# 0,180
1230 PLOT 360,180:DRAW# 0,-60:DRAW# >XH
-8,4:MOVE# 0,-8:DRAW# 8,4:DRAW# -8
0,0:DRAW# 8,4:MOVE# 0,-8:DRAW# -8,4
:DRAW# 0,60
1240 PLOT 280,180:DRAW# -30,0:DRAW# >RB
-4,8:MOVE# 8,0:DRAW# -4,-8:DRAW# 0,
180:DRAW# -4,-8:MOVE# 8,0:DRAW# -4
,8:DRAW# 30,0
1250 LOCATE 32,8:PRINT " h":LOCATE 4 >TY
1,18:PRINT " d"
1260 fo1#CHR$(24):fo2#"" :fo3#"" >AC
1270 fo=1 >EB
1280 LOCATE #3,59,6:PRINT #3,fo1#:" >FC
V=((" :CHR$(184):" .d":CHR$(255):")/4
).h":fo1#
1290 LOCATE #3,59,12:PRINT #3,fo2#:" >HX

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"Am":CHR$(184):"d,h":fo2$
1300 LOCATE #3,59,18:PRINT #3,fo2$: NV
"Am":CHR$(184):"d,(+):fo3$
1310 IF INKEY(18)=0 THEN 1400 >VE
1320 IF INKEY(47)=0 THEN 1350 >WL
1330 IF INKEY(9)=0 THEN CLS:RETURN >CL
1340 GOTO 1310 >MA
1350 fo=fo+1:IF fo>3 THEN fo=1 >XF
1360 ON fo GOSUB 1370,1380,1390:GOT >GD
0 1280
1370 fo1=CHR$(24):fo2$="":fo3$="" >JJ
RETURN
1380 fo2$=CHR$(24):fo1$="":fo3$="" >JK
RETURN
1390 fo3$=CHR$(24):fo1$="":fo2$="" >JL
RETURN
1400 CALL @B806:CLS#1:ON fo GOSUB 1 >PY
410,1450,1490:CLS#1:GOSUB 5500:GOSU >B
5590:GOTO 1260
1410 TAB1=2:TAB2=2:GOSUB 5250 >XN
1420 TAB1=2:TAB2=6:GOSUB 5170 >XV
1430 vol=ROUND((PI*d^2)/4)*haut, >XV
4):LOCATE #1,2,10:PRINT#1,"Le volum >
est de ":PRINT #1," ":vol:" cm >
":CHR$(254):" ,"
1440 CALL @B806:RETURN >RL
1450 TAB1=2:TAB2=2:GOSUB 5250 >XT
1460 TAB1=2:TAB2=6:GOSUB 5170 >XZ
1470 air2=ROUND(PI*d^2*haut,4):LOCAT >MJ
E #1,2,10:PRINT#1,"La surface later >
ale":PRINT #1," est de ":air2:"cm >
":CHR$(255):" ,"
1480 CALL @B806:RETURN >RD
1490 TAB1=2:TAB2=2:GOSUB 5250 >XX
1500 TAB1=2:TAB2=6:GOSUB 5170 >XU
1510 air1=ROUND(PI*d^2*(d/2)+haut) >ZH
4):LOCATE #1,2,14:PRINT#1,"La surf >
ace totale":PRINT #1," est de ":ai >
r1:"cm":CHR$(255):" ,"
1520 CALL @B806:RETURN >RK
1530 ' cylindre creux >YB
1540 MODE 2:GOSUB 5400:GOSUB 5590 >AU
1550 DEG >YC
1560 PLOT 360,180:FOR fz=1 TO 360 S >GF
TEP 10:DRAW 320+40*COS(fz),180+20*S >
IN(fz):NEXT
1570 PLOT 360,360:FOR fz=1 TO 360 S >GG
TEP 10:DRAW 320+40*COS(fz),360+20*S >
IN(fz):NEXT
1580 PLOT 360,180:DRAW 0,180:PLOT >XT
280,180:DRAW 0,180
1590 PLOT 360,180:FOR fz=1 TO 360 S >GD
TEP 10:DRAW 320+20*COS(fz),180+10*S >
IN(fz):NEXT
1600 PLOT 360,360:FOR fz=1 TO 360 S >FD
TEP 10:DRAW 320+20*COS(fz),360+10*S >
IN(fz):NEXT
1610 PLOT 340,360:DRAW 0,-180:PLOT >YI
300,180:DRAW 0,180
1620 PLOT 360,180:DRAW 0,-60:DRAW >NL
-8,4:MOVER 0,-8:DRAW 8,4:DRAW -8 >
0,0:DRAW 8,4:MOVER 0,-8:DRAW -8,4 >
:DRAW 0,60
1630 PLOT 280,180:DRAW -30,0:DRAW >RE
-4,-8:MOVER 8,0:DRAW -4,-8:DRAW 0 >
,180:DRAW -4,-8:MOVER 8,0:DRAW -4 >
,8:DRAW 30,0
1640 PLOT 340,270:DRAW -40,0 >WI
1650 LOCATE 32,8:PRINT "H":LOCATE 4 >TT
1,18:PRINT "D"
1660 LOCATE 41,8:PRINT "d" >UM
1670 fo1=CHR$(24):fo2$="" >UK
1680 fo=1 >UG
1690 LOCATE #3,59,18:PRINT #3,fo1$: >EG
V=(("":CHR$(184):"h")/4)*("D":CHR$(25 >
5):"-d":CHR$(255):""):fo1$
1700 LOCATE #3,59,18:PRINT #3,fo2$: >FE
V=(4,VI)/("":CHR$(184):"ID":CHR$(255 >
):"-d":CHR$(255):""):fo2$
1710 IF INKEY(18)=0 THEN 1790 >WN
1720 IF INKEY(47)=0 THEN 1750 >WM
1730 IF INKEY(9)=0 THEN CLS:RETURN >WQ
1740 GOTO 1710 >WJ
1750 fo=fo+1:IF fo>2 THEN fo=1 >XJ
1760 ON fo GOSUB 1770,1780:GOTO 169 >CE
0
1770 fo1$=CHR$(24):fo2$="":RETURN >BN
1780 fo2$=CHR$(24):fo1$="":RETURN >BP
1790 CALL @B803:CLS#1:ON fo GOSUB 1 >GZ
800,1860:CLS#1:GOSUB 5500:GOSUB 559 >
0:GOTO 1670
1800 TAB1=2:TAB2=2:GOSUB 5170 >XT
1810 TAB1=2:TAB2=6:GOSUB 5220 >XU
1820 TAB1=2:TAB2=10:GOSUB 5250 >YT
1830 IF d/2>d1 THEN LOCATE #1,1,1:FR >AE
INT CHR$(7):GOTO 1820
1840 vol=ROUND((PI*haut)/4*(d1^2 >XQ
-d^2),4):LOCATE #1,2,14:PRINT#1,"L >
e volume est de ":PRINT #1," ":vol >
u:" cm":CHR$(254):" ,"
1850 CALL @B806:RETURN >RR
1860 TAB1=2:TAB2=2:GOSUB 5370 >XB
1870 TAB1=2:TAB2=6:GOSUB 5220 >XA
1880 TAB1=2:TAB2=10:GOSUB 5250 >YK
1890 IF d/2>d1 THEN LOCATE #1,1,1:FR >AT
INT CHR$(7):GOTO 1880
1900 haut=ROUND(4*vol)/(PI*d1^2-d >WH
2^2),4):LOCATE #1,2,14:PRINT#1,"La >
hauteur est de ":PRINT #1," ":haut >
t:" cm."
1910 CALL @B806:RETURN >RN
1920 ' PYRAMIDE >YE
1930 MODE 2:GOSUB 5400:GOSUB 5590 >AY
1940 PLOT 360,200:DRAW -100,0:DRAW >NZ
R 40,30:DRAW 100,0:DRAW -40,-30 >
1950 DRAW -60,30:MOVER 100,0:DRAW >LH
-140,-30
1960 DRAW 70,120:DRAW -30,-90:MOV >LY
ER 30,90:DRAW 70,-90:MOVER -40,-30 >
:DRAW 0,60,120
1970 DRAW 0,-105:MOVER 0,105:DRAW >KD
50,-105
1980 MOVER -50,0:DRAW -100,0:DRAW >TM
-4,8:MOVER 8,0:DRAW -4,-8:DRAW 0 >
,105:DRAW 4,-8:MOVER -8,0:DRAW 4, >
8:DRAW 100,0
1990 MOVER 35,-45:DRAW 10,30:MOVER >XB
-10,-55:DRAW 40,5
2000 MOVE 360,200:DRAW 0,-20:DRAW >QD
-8,4:MOVER 0,-8:DRAW 8,4:DRAW -1 >
00,0:DRAW 8,4:MOVER 0,-8:DRAW -8, >
4:DRAW 0,20
2010 MOVE 360,200:DRAW 20,0:DRAW >FW
0,5:MOVER 8,-3:DRAW -6,-2:DRAW 40 >
,30:DRAW -8,-2:MOVER 8,-3:DRAW 0, >
5:DRAW -20,0
2020 LOCATE 29,9:PRINT "h":LOCATE 4 >TB
6,8:PRINT "m":LOCATE 52,9:PRINT "m" >
":LOCATE 52,12:PRINT "b":LOCATE 40, >
14:PRINT "a"
2030 LOCATE 30,18:PRINT"A1 : surfac >VR
e de la base"
2040 fo1$=CHR$(24):fo2$="":fo3$="" >JA
fo4$=""
2050 fo=1 >DJ
2060 LOCATE #3,59,8:PRINT #3,fo1$: >UY
V=(A1/h^3)/fo1$
2070 LOCATE #3,59,10:PRINT #3,fo2$: >CH
"m1= h":CHR$(255):"a":CHR$(255):"/ >
4":fo2$
2080 LOCATE #3,59,14:PRINT #3,fo3$: >UV
"Am=2a.m1":fo3$
2090 LOCATE #3,59,18:PRINT #3,fo4$: >CD
"m= m1":CHR$(255):"a":CHR$(255):"/ >
4":fo4$
2100 ' radicaux >XF
2110 PLOT 478,128:DRAW 4,-14:DRAW >HD
4,14:DRAW 66,0:PLOT 486,256:DRAW >
4,-14:DRAW 4,14:DRAW 58,0
2120 IF INKEY(18)=0 THEN 2220 >VF
2130 IF INKEY(47)=0 THEN 2160 >WD
2140 IF INKEY(9)=0 THEN CLS:RETURN >CL
1520 GOTO 2120 >MA
2160 fo=fo+1:IF fo>4 THEN fo=1 >XG
2170 ON fo GOSUB 2180,2190,2200,221 >
0:GOTO 2060
2180 fo1$=CHR$(24):fo2$="":fo3$="" >TW
fo4$="":RETURN
2190 fo2$=CHR$(24):fo1$="":fo3$="" >TX
fo4$="":RETURN
2200 fo3$=CHR$(24):fo1$="":fo2$="" >TN

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fo4$="" : RETURN
2210 fo4$=CHR$(24):fo1$="" : fo2$="" : >TF
fo3$="" : RETURN
2220 CALL &BBO3:CLS#1:ON fo GOSUB 2 >WX
230,2270,2310,2350:CLS#1:GOSUB 5500
:GOSUB 5590:GOTO 2040
2230 TAB1=2:TAB2=2:GOSUB 5340 >XF
2240 TAB1=2:TAB2=6:GOSUB 5170 >XV
2250 volu=ROUND((air1*haut)/(3,4):LO >ZR
CATE #1,2,10:PRINT#1,"Le volume est
de :":PRINT #1, " : volu:" cm":CHR$
(254):" : "
2260 CALL &BBO6:RETURN >RM
2270 TAB1=2:TAB2=2:GOSUB 5170 >XV
2280 TAB1=2:TAB2=6:GOSUB 5010 >XT
2290 ai=ROUND(SQR(haut^2+(col^2/4)) >FJ
,4):LOCATE #1,2,10:PRINT#1,"La long
ueur n est de":PRINT #1, " : n1:"
cm.":
2300 CALL &BBO6:RETURN >RG
2310 TAB1=2:TAB2=2:GOSUB 5010 >XG
2320 TAB1=2:TAB2=6:GOSUB 5100 >XM
2330 air1=ROUND(2*col*10,4):LOCATE >NH
#1,2,10:PRINT#1,"La surface latera
le":PRINT #1, " est de":air1:" cm
":CHR$(255):" : "
2340 CALL &BBO6:RETURN >RL
2350 TAB1=2:TAB2=2:GOSUB 5100 >XL
2360 TAB1=2:TAB2=6:GOSUB 5010 >XR
2370 loi=ROUND(SQR(10^2+2*(col^2/4))
,4):LOCATE #1,2,10:PRINT#1,"La long
ueur m est de":PRINT #1, " : loi:"
cm.":
2380 CALL &BBO6:RETURN >RQ
2390 " tronc de pyramide >YG
2400 MODE 2:GOSUB 5400:GOSUB 5590 >AP
2410 PLOT 360,200:DRAWR -100,0:DRAW >NR
R 40,30:DRAWR 100,0:DRAWR -40,-30
2420 DRAWR -60,30:MOVE 100,0:DRAWR >LA
-140,-30
2430 DRAWR 40,80:DRAWR 50,0 >VH
2440 DRAWR 10,-80:MOVE -10,80:DRAW >LX
R 10,7:DRAWR -50,0:DRAWR -10,-7
2450 MOVE 10,7:DRAWR -10,-55 >WZ
2460 MOVE 100,0:DRAWR -40,55 >WY
2470 MOVE 360,200:DRAWR 20,0:DRAWR >RG
0,5:MOVE R,-3:DRAWR -8,-2:DRAWR 40
,30:DRAWR -8,-2:MOVE R,-3:DRAWR 0,
5:DRAWR -20,0
2480 MOVE 360,200:DRAWR 0,-20:DRAWR >QR
-8,4:MOVE 0,-8:DRAWR 8,4:DRAWR -1
00,0:DRAWR 8,4:MOVE 0,-8:DRAWR -8,
4:DRAWR 0,20
2490 MOVE 260,200:DRAWR -50,0:DRAW >TA
R -4,8:MOVE 8,0:DRAWR -4,-8:DRAWR
0,85:DRAWR 4,-8:MOVE -8,0:DRAWR 4,
8:DRAWR 120,0
2500 LOCATE 27,11:PRINT "h":LOCATE >XZ
52,12:PRINT "b":LOCATE 40,14:PRINT
"a"
2510 LOCATE 25,17:PRINT"AI : surfac >HJ
e base inferieure"
2520 LOCATE 25,19:PRINT"A2 : surfac >YD
e base superieure"
2530 LOCATE #3,58,12:PRINT #3,CHR$( >VR
24):V=(h/3).(A1+A2+ A1.A2)":CHR$(2
4)
2540 " radical >YD
2550 PLOT 576,226:DRAWR 4,-14,0:DR >ZC
WR 4,14:DRAWR 42,0,13
2560 PRINT CHR$(23):CHR$(0): >WN
2570 IF INKEY(18)=0 THEN 2600 >WJ
2580 IF INKEY(9)=0 THEN CLS:RETURN >CV
2590 GOTO 2570 >NH
2600 CALL &BBO3:CLS#1:GOSUB 2610:CL >TJ
S#1:GOSUB 5500:GOSUB 5590:GOTO 2530
2610 tab1=2:tab2=2:GOSUB 5170 >XT
2620 tab1=2:tab2=6:GOSUB 5340 >YX
2630 tab1=2:tab2=10:GOSUB 5280 >YW
2640 volu=ROUND((haut/3)*(air1+air2) >UG
+SGR(air1*air2),4):LOCATE #1,2,14:
PRINT#1,"Le volume est de":PRINT
#1, " : volu:" cm":CHR$(254):" : "
2650 CALL &BBO6:RETURN >YQ
2660 " cone >RG
2670 MODE 2:GOSUB 5400:GOSUB 5590 >AZ
2680 DEG >YH
2690 PLOT 380,160:FDR F%=0 TO 360 S >GF
TEP 10:DRAW 320+60*COS(F%),160+15*S
IN(F%):NEXT
2700 DRAW 320,300:DRAW 260,160 >WJ
2710 DRAWR 0,-30:DRAWR 8,4:MOVE 0, >ZH
-8:DRAWR -8,4:DRAWR 120,0:DRAWR -8,
4:MOVE 0,-8:DRAWR 8,4
2720 DRAWR 0,30:DRAWR 40,0:DRAWR -4 >QG
,8:MOVE 8,0:DRAWR -4,-8:DRAWR 0,14
0:DRAWR -4,-8:MOVE 8,0:DRAWR -4,8:
DRAWR -100,0
2730 DRAWR -30,10:DRAWR 0,-10:MOVE >DZ
-10,6:DRAWR 10,4:DRAWR 230,160:DRW
R 10,4:MOVE -10,6:DRAWR 0,-10:DRW
R 30,0
2740 LOCATE 33,10:PRINT "m":LOCATE >XL
53,11:PRINT "h":LOCATE 41,17:PRINT
"n"
2750 fo1$=CHR$(24):fo2$="" : fo3$="" : >JJ
fo4$=""
2760 fo=1 >EG
2770 LOCATE #3,59,6:PRINT #3,fo1$ >CF
V="(CHR$(184):".":CHR$(255):".h/
3":fo1$
2780 LOCATE #3,59,10:PRINT #3,fo2$ >VL
"m="h":CHR$(255):"+r":CHR$(255):fo2
2790 LOCATE #3,59,14:PRINT #3,fo3$ >JV
"Am=":CHR$(184):".r.m":fo3$
2800 LOCATE #3,59,18:PRINT #3,fo4$ >NC
"Ro=r.":CHR$(184):".(r+m)":fo4$
2810 " radicaux >YD
2820 PLOT 478,256:DRAWR 4,-14:DRWR >UC
4,14:DRAWR 40,0
2830 IF INKEY(18)=0 THEN 2930 >WF
2840 IF INKEY(47)=0 THEN 2870 >WV
2850 IF INKEY(9)=0 THEN CLS:RETURN >CV
2860 GOTO 2830 >NG
2870 fo=fo+1:IF fo>4 THEN fo=1 >XQ
2880 ON fo GOSUB 2890,2900,2910,292 >MK
0:GOTO 2770
2890 fo1$=CHR$(24):fo2$="" : fo3$="" : >TE
fo4$="" : RETURN
2900 fo2$=CHR$(24):fo1$="" : fo3$="" : >TW
fo4$="" : RETURN
2910 fo3$=CHR$(24):fo1$="" : fo2$="" : >TX
fo4$="" : RETURN
2920 fo4$=CHR$(24):fo1$="" : fo2$="" : >TY
fo3$="" : RETURN
2930 CALL &BBO3:CLS#1:ON fo GOSUB 2 >XW
940,2980,3020,3060:CLS#1:GOSUB 5500
:GOSUB 5590:GOTO 2750
2940 tab1=2:tab2=2:GOSUB 5170 >XB
2950 tab1=2:tab2=6:GOSUB 5170 >XE
2960 volu=ROUND((PI*ra^2*haut)/(3,4) >ET
:LOCATE #1,2,10:PRINT#1,"Le volume
est de":PRINT #1, " : volu:" cm":C
HR$(254):" : "
2970 CALL &BBO6:RETURN >RW
2980 TAB1=2:TAB2=2:GOSUB 5170 >XD
2990 TAB1=2:TAB2=6:GOSUB 5170 >XL
3000 loi=ROUND(SQR(haut^2+ra^2),4): >HL
LOCATE #1,2,10:PRINT#1,"La longueur
m est de":PRINT #1, " : loi:" cm.":
3010 CALL &BBO6:RETURN >RF
3020 TAB1=2:TAB2=2:GOSUB 5170 >XQ
3030 TAB1=2:TAB2=6:GOSUB 5070 >XT
3040 air=ROUND(PI*ra*loi,4):LOCATE >JN
#1,2,10:PRINT#1,"La surface latera
le":PRINT #1, " est de":airm:" cm":C
HR$(255):" : "
3050 CALL &BBO6:RETURN >RK
3060 TAB1=2:TAB2=2:GOSUB 5170 >XV
3070 TAB1=2:TAB2=6:GOSUB 5070 >XX
3080 airo=ROUND(ra*PI*(ra+loi),4): >NE
OCATE #1,2,10:PRINT#1,"La surface t
otale":PRINT #1, " est de":airo:" cm
":CHR$(255):" : "
3090 CALL &BBO6:RETURN >RF
3100 " tronc de cone >XG
3110 MODE 2:GOSUB 5400:GOSUB 5590 >AN
3120 DEG >XH

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3130 PLOT 380,160:F0R F% TO 360 S >TL RETURN
IN(F%):NEXT:PLOT 350,220:FDR F% TO 3
0 360 STEP 10:DRAW 320+30*COS(F%),2
20+7*SIN(F%):NEXT
3140 MOVE 380,160:DRAW 350,220:MOVE >YR
260,160:DRAW 290,220 /
3150 MOVE 260,160:DRAW 0,-40:DRAWR >NT
8,4:MOVE 0,-8:DRAWR -8,4:DRAWR 12
0,0:DRAWR -8,4:MOVE 0,-8:DRAWR 8,4
:DRAWR 0,40
3160 MOVE 290,220:DRAWR 0,40:DRAWR >MQ
8,4:MOVE 0,-8:DRAWR -8,4:DRAWR 60,
0:DRAWR -8,4:MOVE 0,-8:DRAWR 8,4:D
RAWR 0,-40
3170 MOVE 290,220:DRAWR -30,10:DRAW >CP
R 0,-10:MOVE -10,6:DRAW 10,4:DRAW
230,160:DRAW 10,4:MOVE -10,6:DRAW
WR 0,-10:DRAWR 30,0
3180 MOVE 380,160:DRAWR 20,0:DRAWR >QL
-4,8:MOVE 8,0:DRAWR -4,-8:DRAWR 0,
60:DRAWR -4,-8:MOVE 8,0:DRAWR -4,8
:DRAWR -50,0
3190 LOCATE 31,13:PRINT "m":LOCATE >EY
51,13:PRINT "h":LOCATE 41,18:PRINT
"D":LOCATE 41,9:PRINT "d"
3200 LOCATE 25,4:PRINT"A1 : surface >ZH
inferieure"
3210 LOCATE 25,6:PRINT"A2 : surface >AV
superieure"
3220 fo1=CHR$(24):fo2="" :fo3="" >AA
3230 fo1 >DK
3240 LOCATE #3,59,6:PRINT #3,fo1$ >NL
V=(("):CHR$(184):",h)/12).":LOCATE #
3,59,7:PRINT #3,"(D):CHR$(255):"+D,
d+d":CHR$(255):")":fo1$
3250 LOCATE #3,59,12:PRINT #3,fo2$ >FP
"m=( (D-d)/2):CHR$(255):"+":CHR$(
255):fo2$
3260 LOCATE #3,59,18:PRINT #3,fo3$ >WE
"Ae=(("):CHR$(184):",a)/2). (D+d):fo
3$
3270 " radicaux >YE
3280 PLOT 478,224:DRAWR 4,-14:DRAWR >VW
4,14:DRAWR 110,0
3290 IF INKEY(18)=0 THEN 3390 >WR
0,-160:DRAWR -4,8:MOVE 8,0:DRAWR -
4,-8:DRAWR 100,0
3310 IF INKEY(9)=0 THEN CLS:RETURN >CL
3320 GOTO 3290 >MK
3330 fo=fo+1:IF fo/3 THEN fo=1 >XF
3340 ON fo GOSUB 3360,3370,3380 >XE
3350 GOTO 3240 >MH
3360 fo1$=CHR$(24):fo2$="" :fo3$="" >JK
RETURN
3370 fo2$=CHR$(24):fo1$="" :fo3$="" >JL
RETURN
3380 fo3$=CHR$(24):fo1$="" :fo2$="" >JM
3700 IF INKEY(47)=0 THEN 3730 >XM
3710 IF INKEY(9)=0 THEN CLS:RETURN >XD
3720 GOTO 3690 >XN
3730 fo=fo+1:IF fo/2 THEN fo=1 >XJ
3740 ON fo GOSUB 3760,3770 >XY
3750 GOTO 3670 >XJ
3760 fo1$=CHR$(24):fo2$="" :RETURN >XB
3770 fo2$=CHR$(24):fo1$="" :RETURN >BG
3780 CALL $BB03:CLS#1:ON fo GOSUB 3 >XA
790,3820:CLS#1:GOSUB 5500:GOSUB 559
0:GOTO 3650
3790 TAB1=2:TAB2=2:GOSUB 5250 >XC
3800 volu=ROUND((PI*d2^3)/6,4):LOCA >RT
TE #1,2,8:PRINT#1,"Le volume est de
":PRINT #1," ":volu:"cm":CHR$(254
):"
3810 CALL $BB06:RETURN >XF
3820 TAB1=2:TAB2=2:GOSUB 5250 >XW
3830 airo=ROUND((PI*d2^2,4):LOCATE # >AM
1,2,8:PRINT#1,"La surface totale":P
RINT #1," est de ":airo:"cm":CHR$(
255):"
3840 CALL $BB06:RETURN >XT
3850 " calotte spherique >YJ
3860 MODE 2:GOSUB 5400:GOSUB 5590 >AB
3870 DEG >YK
3880 PLOT 400,200:FDR F% TO 360 S >GC
IN(F%):NEXT
3890 PLOT 400,200:FDR F% TO 360 S >FF
IN(F%):DRAW 320+80*COS(F%),200+80*S
IN(F%):NEXT
3900 FDR F=10 TO 0 STEP -2:RA1=320+ >ZQ
78*COS(75):RA2=190+80*SIN(75):PLOT
RA1,RA2:FDR G% TO 360 STEP 10:DRA
W 320+2*(RA1-320)*COS(G%),RA2+(F+1
)*SIN(G%):NEXT:NEXT
3910 MOVE 320-78*COS(75),RA2:DRAWR >ZQ
-50,0:DRAWR -2,4:DRAWR 4,0:DRAWR -2
,-4:DRAWR 0,-28:RA2:DRAWR -2,-4:DRA
WR 4,0:DRAWR -2,4:DRAW 320,280
3920 MOVE 300-80*COS(75),RA2:DRAWR >YV
0,60:DRAWR 8,4:MOVE 0,-8:DRAWR -8,
4:DRAWR RA1+20,RA2+60:DRAWR -8,4:MOV
ER 0,-8:DRAWR 8,4:DRAWR 0,-60
3930 MOVE 400,200:DRAWR 0,-100:DRAW >VF
R -8,4:MOVE 0,-8:DRAWR 8,4:DRAWR -
160,0:DRAWR 8,4:MOVE 0,-8:DRAWR -8
,4:DRAW 240,200
3940 LOCATE 40,5:PRINT"s:LOCATE 30 >VB
,8:PRINT "h":LOCATE 40,19:PRINT "d"
3950 fo1$=CHR$(24):fo2$="" :fo3$="" >AL
3960 fo1 >XE
3970 LOCATE #3,59,6:PRINT #3,fo1$ >FM
V=(("):CHR$(184):",d":CHR$(255):")/6
1.(3d-2h):fo1$

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3980 LOCATE #3,59,12:PRINT #3,fo2#;>HF R -6,26:DRAWR -4,27:DRAWR 4,27:DRAW
"Am=";CHR$(184);".d.h";fo2# R 6,26:MOVE 10,127
3990 LOCATE #3,59,18:PRINT #3,fo3#;>EG 4290 MOVE 385,260:DRAWR -8,4:MOVER >CG
"Am=";CHR$(184);"/4).s";CHR$(255) 0,-8:DRAWR 8,4:DRAWR -130,0:DRAWR 8
;"4h";CHR$(255);"/4).fo3# 4,4:MOVER 0,-8:DRAWR -8,4
4000 IF INKEY(18)=0 THEN 4090 >WD 4300 MOVE 275,340:DRAWR -80,0:DRAWR >UK
4010 IF INKEY(47)=0 THEN 4040 >WB -4,-8:MOVER 8,0:DRAWR -4,8:DRAWR 0
4020 IF INKEY(9)=0 THEN CLS:RETURN >CK -160:DRAWR -4,8:MOVER 8,0:DRAWR -4
4030 GOTO 4000 >LJ -8:DRAWR 80,0
4040 fo=fo+1:IF fo>3 THEN fo=1 >XE 4310 MOVE 365,180:DRAWR 0,-50:DRAWR >NF
4050 ON fo GOSUB 4060,4070,4080:GOT >GH -8,4:MOVER 0,-8:DRAWR 8,4:DRAWR -9
0 3970 0,0:DRAWR 8,4:MOVER 0,-8:DRAWR -8,4
4060 fo1=CHR$(24):fo2#="" :fo3#="" :>JH 4320 LOCATE 25,9:PRINT "h":LOCATE 4 >VA
RETURN 1,9:PRINT "D":LOCATE 41,17:PRINT "d
4070 fo2#=CHR$(24):fo1#="" :fo3#="" :>JJ 4330 fo1=CHR$(24):fo2#="" >UF
RETURN 4340 fo=1 >EC
4080 fo3#=CHR$(24):fo1#="" :fo2#="" :>JK 4350 LOCATE #3,58,9:PRINT #3,fo1#;>KL
RETURN "V="(" ;CHR$(184);".h)/12).12D";CHR$( 255);"/2";CHR$(255);"/2");fo1# /
4090 CALL @BB03:CLS#1:ON fo GOSUB 4 >PM 4360 LOCATE #3,57,16:PRINT #3,fo2#;>VD
0 5990:GOTO 3950 "D="(6.V)/(" ;CHR$(184);".h))-1d";C
4100 TAB1=2:TAB2=2:GOSUB 5170 >XN HR$(255);"/2");fo2#
4110 TAB1=2:TAB2=6:GOSUB 5250 >XT 4370 ' radicaux >YG
4120 volu=ROUND((PI*HAUT^2)/6)*3* >CQ 4380 PLOT 464,160:DRAWR 4,-14:DRAWR >VX
D2-2*HAUT),4):LOCATE #1,2,10:PRINT# 4,14:DRAWR 160,0
1,"Le volume est de":PRINT #1," " 4390 IF INKEY(18)=0 THEN 4480 >WH
"volu;cm";CHR$(254);" " . 4400 IF INKEY(47)=0 THEN 4430 >WW
4130 CALL @BB06:RETURN >RK 4410 IF INKEY(9)=0 THEN CLS:RETURN >CN
4140 TAB1=2:TAB2=2:GOSUB 5250 >XR 4420 GOTO 4390 >XD
4150 TAB1=2:TAB2=6:GOSUB 5170 >XY 4430 fo=fo+1:IF fo>2 THEN fo=1 >NG
4160 airn=ROUND(PI*d2*haut,4):LOCAT >NH 4440 ON fo GOSUB 4460,4470 >TR
E #1,2,10:PRINT#1,"La surface later 4450 GOTO 4350 >NC
ale":PRINT #1," est de ":airn;"cm" 4460 fo1#=CHR$(24):fo2#="" :RETURN >BM
;CHR$(255);" " . 4470 fo2#=CHR$(24):fo1#="" :RETURN >BN
4170 CALL @BB06:RETURN >RP 4480 CALL @BB03:CLS#1:ON fo GOSUB 4 >GA
4180 TAB1=2:TAB2=2:GOSUB 5310 >XT 490,4540:CLS#1:GOSUB 5500:GOSUB 55
4190 TAB1=2:TAB2=6:GOSUB 5170 >XC 0:GOTO 4330
4200 airn=ROUND(PI/4)*((seg^2+4*ha >NH 4490 TAB1=2:TAB2=2:GOSUB 5170 >XB
t^2)):LOCATE #1,2,10:PRINT#1,"La 4500 TAB1=2:TAB2=6:GOSUB 5220 >XT
surface laterale":PRINT #1," est de 4510 TAB1=2:TAB2=10:GOSUB 5250 >YR
":airn;"cm";CHR$(255);" " . 4520 volu=ROUND(((PI*HAUT)/12)*(2*D >CH
4210 CALL @BB06:RETURN >RJ 1^2+D2^2),4):LOCATE #1,2,14:PRINT#1
4220 ' tonneau >YA "Le volume est de":PRINT #1," "
4230 MODE 2:GOSUB 5400:GOSUB 5590 >AT 4530 CALL @BB06:RETURN >RP
4240 DEG:PLOT 365,180:FOR FZ=0 TO 3 >HW 4540 TAB1=2:TAB2=2:GOSUB 5370 >XZ
60 STEP 10:DRAW 320+45*COS(FZ),180+ 4550 TAB1=2:TAB2=6:GOSUB 5170 >XY
15* SIN(FZ):NEXT >YX 4560 TAB1=2:TAB2=10:GOSUB 5250 >YX
4250 PLOT 365,340:FOR FZ=0 TO 360 S >GP 4570 DIA=ROUND(SQR(((6*VOL)/(PI*HAU >JG
TEP 10:DRAW 320+45*COS(FZ),340+15* 71)-(D2^2/2)),4):LOCATE #1,2,14:PRI
IN(FZ):NEXT >YJ NT#1,"Le diametre D est":PRINT #1,"
4260 PLOT 385,260:FOR FZ=0 TO 360 S >GV 4580 CALL @BB06:RETURN >RV
10:DRAW 320+45*COS(FZ),260+22* 4590 ' ZONE SPHERIQUE >ZA
IN(FZ):NEXT >YK 4600 MODE 2:GOSUB 5400:GOSUB 5590 >AU
4270 MOVE 365,180:DRAWR 10,27:DRAWR >TU 4610 DEG >YC
8,26:DRAWR 4,27:DRAWR -4,27:DRAWR >XD 4620 PLOT 400,200:FOR FZ=0 TO 360 S >FD
-6,26:DRAWR -10,27 >TK 4290 MOVE 385,260:DRAWR -8,4:MOVER >CG
0,-8:DRAWR 8,4:DRAWR -130,0:DRAWR 8 4630 PLOT 400,200:FOR FZ=0 TO 360 S >FY
4,4:MOVER 0,-8:DRAWR -8,4 4640 FOR FZ=20 TO 20:RAI=320+78*COS(1 >AK
;"4h";CHR$(255);"/4).s";CHR$(255) 35-F):RAI=200+78*SIN(135-F):PLOT RA
4000 IF INKEY(18)=0 THEN 4090 >WD 4650 FOR GZ=360 TO 180 STEP -10:DR >XU
4010 IF INKEY(47)=0 THEN 4040 >WB 160 320+(RAI-320)*COS(GZ),RAI+20.3*(RA
4020 IF INKEY(9)=0 THEN CLS:RETURN >CK -160:DRAWR -4,8:MOVER 8,0:DRAWR -4 2-F-200)*SIN(GZ):NEXT
4030 GOTO 4000 >LJ -8:DRAWR 80,0 4660 NEXT >LH
4040 fo=fo+1:IF fo>3 THEN fo=1 >XE 4670 MOVE RAI,RA2:DRAWR 0,40:DRAWR >NQ
4050 ON fo GOSUB 4060,4070,4080:GOT >GH 8,4:MOVER 0,-8:DRAWR -8,4:DRAW 320-
0 3970 0,0:DRAWR 8,4:MOVER 0,-8:DRAWR -8,4:MOVER 0,-8:DRAWR 160,0:DRAWR
4060 fo1=CHR$(24):fo2#="" :fo3#="" :>JH 4680 MOVE 240,200:DRAWR 18,4:MOVER >GD
RETURN 4690 MOVE 320+78*COS(135),200+78*SI >XC
4070 fo2#=CHR$(24):fo1#="" :fo3#="" :>JJ 4700 MOVE 320+78*COS(135),200+78*SI >JU
RETURN "V="(" ;CHR$(184);".h)/24).":LOCATE #
4080 fo3#=CHR$(24):fo1#="" :fo2#="" :>JK 4710 LOCATE 40,3:PRINT "d1":LOCATE >FQ
RETURN 4720 fo1#=CHR$(24):fo2#="" :fo3#="" >AB
4090 CALL @BB03:CLS#1:ON fo GOSUB 4 >PM 4730 fo=1 >EF
0 5990:GOTO 3950 4740 LOCATE #3,58,6:PRINT #3,fo1#;>JML
4100 TAB1=2:TAB2=2:GOSUB 5170 >XN V="(" ;CHR$(184);".h)/24).":LOCATE #
4110 TAB1=2:TAB2=6:GOSUB 5250 >XT 3,58,7:PRINT #3,"(3d1);CHR$(255);"/4
4120 volu=ROUND((PI*HAUT^2)/6)*3* >CQ 3d2";CHR$(255);"/4h";CHR$(255);"/4
D2-2*HAUT),4):LOCATE #1,2,10:PRINT# 4750 LOCATE #3,58,12:PRINT #3,fo2#;>HA
1,"Le volume est de":PRINT #1," " "Am=";CHR$(184);".d.h";fo2#
4130 CALL @BB06:RETURN >RK 4760 LOCATE #3,57,18:PRINT #3,fo3#;>QN
4140 TAB1=2:TAB2=2:GOSUB 5250 >XR "Ao=";CHR$(184);"/4).4d.h+d1";CHR
4150 TAB1=2:TAB2=6:GOSUB 5170 >XY 4770 IF INKEY(18)=0 THEN 4860 >WZ (255);"/2";CHR$(255);"/2");fo1# /
4160 airn=ROUND(PI*d2*haut,4):LOCAT >NH 4780 IF INKEY(47)=0 THEN 4810 >WX
E #1,2,10:PRINT#1,"La surface later 4790 IF INKEY(9)=0 THEN CLS:RETURN >CA
ale":PRINT #1," est de ":airn;"cm" 4800 GOTO 4770 >NH
;CHR$(255);" " . 4810 fo=fo+1:IF fo>3 THEN fo=1 >XK
4170 CALL @BB06:RETURN >RP 4820 ON fo GOSUB 4830,4840,4850:GOT >GA
4180 TAB1=2:TAB2=2:GOSUB 5310 >XT 4830 fo1#=CHR$(24):fo2#="" :fo3#="" :>JN
4190 TAB1=2:TAB2=6:GOSUB 5170 >XC 4840 MOVE 365,180:DRAWR 10,27:DRAWR >XD
4200 airn=ROUND(PI/4)*((seg^2+4*ha >NH 4850 ' ZONE SPHERIQUE >ZA
t^2)):LOCATE #1,2,10:PRINT#1,"La 4860 MODE 2:GOSUB 5400:GOSUB 5590 >AU
surface laterale":PRINT #1," est de 4870 IF INKEY(18)=0 THEN 4860 >WZ
":airn;"cm";CHR$(255);" " . 4880 IF INKEY(47)=0 THEN 4810 >WX
4210 CALL @BB06:RETURN >RJ 4890 GOTO 4770 >NH
4220 ' tonneau >YA 4900 IF INKEY(9)=0 THEN CLS:RETURN >CA
4230 MODE 2:GOSUB 5400:GOSUB 5590 >AT 4910 IF INKEY(9)=0 THEN CLS:RETURN >CA
4240 DEG:PLOT 365,180:FOR FZ=0 TO 3 >HW 4920 IF INKEY(9)=0 THEN CLS:RETURN >CA
60 STEP 10:DRAW 320+45*COS(FZ),180+ 4930 fo1#=CHR$(24):fo2#="" :fo3#="" :>JN
15* SIN(FZ):NEXT >YJ 4940 MOVE 365,180:DRAWR 10,27:DRAWR >XD
4250 PLOT 365,340:FOR FZ=0 TO 360 S >GP 4950 ' ZONE SPHERIQUE >ZA
TEP 10:DRAW 320+45*COS(FZ),340+15* 4960 MODE 2:GOSUB 5400:GOSUB 5590 >AU
IN(FZ):NEXT >YK

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RETURN
4850 fo2$=CHR$(24):fo1$="":fo2$="">JQ
4860 CALL &BBO3:CLS#1:ON fo GOSUB 4.>PB
870,4140,4930:CLS#1:GOSUB 5500:GOSU
B 5590:GOTO 4720
4870 TAB1=2:TAB2=2:GOSUB 5170 >XD
4880 TAB1=2:TAB2=6:GOSUB 5130 >XE
4890 TAB1=2:TAB2=10:GOSUB 5150 >YX
4900 IF d4>d3 THEN LOCATE #1,1,1:PR >AW
INT CHR$(7):GOTO 4890
4910 volu=ROUND((PI*HAUT)/24)*(3*D >AD
3^2+3*D4^2+4*HAUT^2).4):LOCATE #1,2
,14:PRINT#1,"Le volume est de :":PR
INT #1, " ";volu;" cm";CHR$(254); "
"
4920 CALL &BBO6:RETURN >RT
4930 TAB1=2:TAB2=2:GOSUB 5250 >XZ
4940 TAB1=2:TAB2=6:GOSUB 5170 >XF
4950 TAB1=2:TAB2=10:GOSUB 5130 >YX
4960 IF d3>d2 THEN LOCATE #1,1,1:PR >AX
INT CHR$(7):GOTO 4950
4970 TAB1=1:TAB2=14:GOSUB 5150 >YE/
4980 IF d4>d3 THEN LOCATE #1,1,1:PR >AD
INT CHR$(7):GOTO 4970
4990 airo=ROUND((PI/4)*(4*d2*haut+d >MG
3^2+d4^2).4):LOCATE #1,2,18:PRINT #
1,"La surface totale":PRINT #1, " es
t de ":airo;" cm";CHR$(255);
5000 CALL &BBO6:RETURN >RG
5010 LOCATE #1,tab1,tab2:PRINT#1,"E >XE
NTREZ LE COTE a en":PRINT#1," cm -
->";:LINE INPUT#1,"",col$
5020 col=VAL(col$):IF col=0 THEN LO >VX
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 50
10
5030 RETURN >FB
5040 LOCATE #1,tab1,tab2:PRINT#1,"E >LB
NTREZ LE COTE b en":PRINT#1," cm -
->";:LINE INPUT#1,"",col$
5050 col2=VAL(col2$):IF col2=0 THEN LO >VG
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 50
40
5060 RETURN >FE
5070 LOCATE #1,tab1,tab2:PRINT#1,"E >TB
NTREZ LA LONGUEUR m":PRINT#1," en c
m ->";:LINE INPUT#1,"",loi$
5080 loi=VAL(loi$):IF loi=0 THEN LO >WF
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 50
70
5090 RETURN >FH
5100 LOCATE #1,tab1,tab2:PRINT#1,"E >WB
NTREZ LA LONGUEUR ml":PRINT#1," en
cm ->";:LINE INPUT#1,"",lo2$
5110 lo2=VAL(lo2$):IF lo2=0 THEN LO >WM
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 51
00
5120 RETURN >FB
5130 LOCATE #1,tab1,tab2:PRINT#1,"E >KP
NTREZ LE DIAMETRE d1":PRINT#1," en
cm ->";:LINE INPUT#1,"",D3$:D3=VAL
(D3$):IF D3=0 THEN LOCATE #1,1,1:PR
INT CHR$(7):GOTO 5130
5140 RETURN >FD
5150 LOCATE #1,tab1,tab2:PRINT#1,"E >KZ
NTREZ LE DIAMETRE d2":PRINT#1," en
cm ->";:LINE INPUT#1,"",D4$:D4=VAL
(D4$):IF D4=0 THEN LOCATE #1,1,1:PR
INT CHR$(7):GOTO 5150
5160 RETURN >FF
5170 LOCATE #1,tab1,tab2:PRINT#1,"E >CT
NTREZ LA HAUTEUR":PRINT#1," en cm
->";:LINE INPUT#1,haute:haute=VAL(
haute$):IF haute=0 THEN LOCATE #1,1,1
:PRINT#1,CHR$(7):GOTO 5170
5180 RETURN >FH
5190 LOCATE #1,tab1,tab2:PRINT#1,"E >LY
NTREZ LE RAYON r en":PRINT#1," cm
->";:LINE INPUT#1,"",ra$
5200 ra=VAL(ra$):IF ra=0 THEN LOCAT >NW
E #1,1,1:PRINT CHR$(7):GOTO 5190
5210 RETURN >FB
5220 LOCATE #1,tab1,tab2:PRINT#1,"E >FR
NTREZ LE DIAMETRE d":PRINT#1," en c
m ->";:LINE INPUT#1,"",D1$
5230 D1=VAL(D1$):IF D1=0 THEN LOCAT >MD
E #1,1,1:PRINT CHR$(7):GOTO 5220
5240 RETURN >FE
5250 LOCATE #1,tab1,tab2:PRINT#1,"E >PF
NTREZ LE DIAMETRE d":PRINT#1," en c
m ->";:LINE INPUT#1,"",D2$
5260 D2=VAL(D2$):IF D2=0 THEN LOCAT >MN
E #1,1,1:PRINT CHR$(7):GOTO 5250
5270 RETURN >FH
5280 LOCATE #1,tab1,tab2:PRINT#1,"E >JF
NTREZ L' AIRE A2 en":PRINT#1," cm";
CHR$(255); " ->";:LINE INPUT#1,"",a
ir2$
5290 air2=VAL(air2$):IF air2=0 THEN >AU
LOCATE #1,1,1:PRINT#1,CHR$(7):GOTO
5280
5300 RETURN >FB
5310 LOCATE #1,tab1,tab2:PRINT#1,"E >RW
NTREZ LE SEGMENT s":PRINT#1," en c
m ->";:LINE INPUT#1,"",seg$
5320 seg=VAL(seg$):IF seg=0 THEN LO >TM
CATE #1,1,1:PRINT CHR$(7):GOTO 5310
5330 RETURN >FE
5340 LOCATE #1,tab1,tab2:PRINT#1,"E >JA
NTREZ L' AIRE A1 en":PRINT#1," cm";
CHR$(255); " ->";:LINE INPUT#1,"",a
ir1$
5350 air1=VAL(air1$):IF air1=0 THEN >AJ
LOCATE #1,1,1:PRINT#1,CHR$(7):GOTO
5340
5360 RETURN >FH
5370 LOCATE #1,tab1,tab2:PRINT#1,"E >HV
NTREZ LE VOLUME en":PRINT#1," cm";
CHR$(254); " ->";:LINE INPUT#1,"",v
ol$
5380 vol=VAL(vol$):IF vol=0 THEN LO >XZ
CATE #1,1,1:PRINT#1,CHR$(7):GOTO 53
70
5390 RETURN >GA
5400 " >YB
5410 " dessin contour ecran >YC
5420 " >YD
5430 MODE 2:ORIGIN 0,0:PLOT 0,0,13: >MP
DRAW 639,0:DRAW 0,399:DRAW 639,
0:DRAW 0,-399
5440 PLOT 3,3:DRAW 633,0:DRAW 0,3 >HF
93:DRAW 633,0:DRAW 0,-393
5450 PLOT 4,80:DRAW 631,0:PLOR 0, >TK
-3:DRAW 631,0
5460 PLOT 165,3:DRAW 0,74:PLOR 3, >QA
0:DRAW 0,-74
5470 PLOT 440,80:DRAW 0,317:PLOR >VL
-3,0:DRAW 0,-317
5480 PLOT 440,355:DRAW 194,0:PLOR >WX
0,-3:DRAW -194,0
5490 LOCATE 64,2:PRINT "FORMULES" >CR
5500 WINDOW #1,2,23,2,19:PAPER #1,1 >RB
:PEN #1,0:CLS #1
5510 LOCATE #1,3,3:PRINT#1,"CHOISIS >UF
SEZ LA BONNE"
5520 LOCATE #1,3,5:PRINT#1,"FORMULE >RW
AVEC LA"
5530 LOCATE #1,3,7:PRINT#1,"BARE D >UA
'ESPACEMENT."
5540 LOCATE #1,3,13:PRINT#1,"CECI F >UU
AIT , VALIDEZ"
5550 LOCATE #1,3,15:PRINT#1,"PAR EN >JU
TER ."
5560 WINDOW #2,57,79,5,19:PAPER #2, >UB
0:PEN #2,1:CLS #2
5570 WINDOW #4,23,79,22,24:PAPER #4 >UE
,0:PEN #4,1:CLS #4
5580 LOCATE 2,23:PRINT "COPY=RETOUR >ZD
AU MENU":RETURN
5590 LOCATE #4,1,1:PRINT#4,"V:Vol. >GM
Am:surf.laterale A0surf.tot. h:
haut r:rayon"
5600 LOCATE #4,1,3:PRINT#4,"e:DIAG. >FX
d,D:DIAM. m:generatrice s:corde a
:long. b:larg."
5610 RETURN >FF
5620 MODE 2:PRINT:PRINT " VALEUR EN >PZ
TREE ERROREE ... UNE TOUCHE POUR RE
COMMENCER ...":CALL &BBO3:CALL &BBO
6:PRINT CHR$(7):RUN

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