

```

2000 ' S/P grand cercle
2010 ORIGIN v,w:PLOT -1x,4y:PLOT 0,6y:PLOT 1x,8y:PLOT 2x,10y:PLOT 4x,12y:
y:PLOT 6x,14y:PLOT 7x,14y:DRAW 10x,18y:DRAW 18x,18y:DRAW 25x,16y:DRAW
29x,14y:PLOT 31x,12y:PLOT 33x,10y:PLOT 34x,8y:PLOT 35x,6y:PLOT 36x,4y
y
2020 DRAW 36x,-4y:PLOT 35x,-6y:PLOT 34x,-8y:PLOT 33x,-10y:PLOT 31x,-12y
y:PLOT 29x,-14y:DRAW 25x,-16y:DRAW 18x,-18y:DRAW 10x,-16y:DRAW 7x,-14y
:PLOT 6x,-14y:PLOT 4x,-12y:PLOT 2x,-10y:PLOT 1x,-8y:PLOT 0,-6y:PLOT -1x
x,-4y
2030 DRAW -1x,4y:RETURN
2040 ' S/P petit cercle
2050 PLOT 0,2y:PLOT 1x,4y:PLOT 2x,6y:PLOT 3x,8y:PLOT 4x,8y:DRAW 7x,8y
x,6y:PLOT 19x,4y:PLOT 20x,2y
2060 DRAW 20x,-2y:PLOT 19x,-4y:PLOT 17x,-6y:PLOT 18x,-6y:PLOT 16x,-8y:
DRAW 13x,-8y:PLOT 12x,-10y:DRAW 8x,-10y:PLOT 7x,-8y:DRAW 4x,-8y:PLOT 3
xx,-6y:PLOT 2x,-6y:PLOT 1x,-4y:PLOT 0,-2y:DRAW 0,2y:RETURN
2070 ' S/P diode
2080 ORIGIN v,w:IF z=1 THEN 2110
2090 PLOT -6x,0:DRAW 11x,0
2100 PLOT -1x,-4:DRAW -1x,4:PLOT 0,-4:DRAW 0,4:FOR i=0 TO 6:PLOT i*x,i:DRAW i*x
x,-i:NEXT:RETURN
2110 PLOT 15,-4y:DRAW 23,-4y:PLOT 19,-4y:DRAW 19,2y
2120 PLOT 15,-12y:DRAW 23,-12y:PLOT 19,-12y:DRAW 19,-18y:GOTO 3630
3000 ' points
3010 IF z=1 THEN 3030
3020 DRAW 4x,0:PLOT 0,-2y:DRAW 4x,-2y:PLOT 0,2y:DRAW 4x,2y:RETURN
3030 DRAW 5,0:PLOT 0,-2:DRAW 5,-2:PLOT 0,2:DRAW 5,2:RETURN
3100 ' rectangles
3110 IF t=2 THEN PLOT 0,0:RETURN
3120 MOVE 0,6:DRAW 0,12:MOVE 6,0:DRAW 12,0:MOVE 0,-6:DRAW 0,-12:MOVE -6,0:DRAW -
12,0:PLOT 0,0
3130 IF t=1 THEN POKE comut!,1:CALL trans!:v1=v:w1=w:IF a=2 THEN a=27 ELSE a=26
3140 RETURN
3150 ORIGIN 0,0:PLOT v1,w1:IF z=1 THEN 3170
3160 DRAW v1,w:DRAW v,w:DRAW v1,w1:GOTO 3180
3170 FOR i=w1 TO w STEP -8:DRAW 0,-4:MOVER 0,-4:NEXT:FOR i=v1 TO v STEP 8:DRAW 4,0:
MOVER 4,0:NEXT:FOR i=w1 TO w STEP -8:DRAW 0,4:MOVER 0,4:NEXT:FOR i=v1 TO v
STEP 8:DRAW -4,0:MOVER -4,0:NEXT
3180 IF t=1 OR t=2 THEN a=2:v=v1:w=w1:RETURN ELSE POKE comut!,1:CALL trans!:RETU
RN
3200 ' carre
3210 IF z=1 THEN 3230
3220 ORIGIN 0,0:TAG:MOVE v,w:PRINT CHR$(143):TAGOFF:RETURN
3230 DRAW 0,-15:DRAW 15,-15:DRAW 15,0:DRAW 0,0:RETURN
3300 ' pointilles
3310 IF z=1 THEN 3330
3320 DRAW 4,0:PLOT 8,0:DRAW 12,0:PLOT 16,0:DRAW 20,0:RETURN
3330 DRAW 0,-4:PLOT 0,-8:DRAW 0,-12:PLOT 0,-16:DRAW 0,-20:RETURN
3400 ' croix
3410 IF z=1 THEN 3430
3420 DRAW 0,8y:PLOT x,0:DRAW x,8y:PLOT x,10y:DRAW 2x,10y:PLOT 3x,12y:DRAW
16x,12y:RETURN
3430 DRAW 13,13:PLOT 0,13:DRAW 13,0:RETURN
3500 ' connexions
3510 GOTO 3110
3520 ORIGIN 0,0:PLOT v1,w1:DRAW v,w:IF z=1 THEN PLOT v1+1,w1:DRAW v+1,w
3530 IF t=1 OR t=2 THEN a=6:RETURN ELSE POKE comut!,1:CALL trans!:RETURN
3600 ' fleche
3610 IF z=1 THEN 3630
3620 PLOT 12x,0:DRAW 0,0:DRAW 8x,3:DRAW 6x,-3:DRAW 0,0:PLOT 6x,-4:PLOT 6x,4
:PLOT 2x,-1:PLOT 2x,-2:PLOT 5x,-4:PLOT 5x,4:PLOT 3x,-3:PLOT 3x,3:PLOT 1x,
1:PLOT 1x,-1:PLOT 2x,2:RETURN
3630 PLOT 19,-16y:DRAW 19,-4y:DRAW 22,-10y:DRAW 16,-10y:DRAW 19,-4y:PLOT 17
,-8y:DRAW 21,-8y:RETURN

```

```

3700 ' alphanumerique
3710 ORIGIN 0,0:TAG:MOVE v,w:PRINT CHR$(143):IF t=1 THEN POKE comut!,1:CALL tra
ns!:a=25
3720 TAGOFF:RETURN
3730 ORIGIN 0,0:MOVE v,w
3740 TAG:bs=INKEY$:IF bs="" THEN 3740
3750 IF bs=CHR$(13) THEN 3790
3760 IF bs=CHR$(16) THEN POKE comut!,1:CALL trans!:w=w+16:GOTO 3790
3770 IF bs=CHR$(127) THEN PRINT MOVE (XPOS-8),w:PRINT " ":MOVE (XPOS-8),w:GOTO 3740
3780 PRINT bs:GOTO 3740
3790 POKE comut!,0:CALL trans!:w=w-16:a=8:TAGOFF:RETURN
3800 ' resistance
3810 IF z=1 THEN 3830
3820 ORIGIN v,w:DRAW 5x,0:DRAW 7x,4y:DRAW 11x,-4y:DRAW 15x,4y:DRAW 19x,-
4y:DRAW 23x,4y:DRAW 27x,-4y:DRAW 29x,0:DRAW 34x,0:RETURN
3830 ORIGIN v,w:DRAW 0,-5y:DRAW 4x,-7y:DRAW -4x,-11y:DRAW 4x,-15y:DRAW -4
xx,-19y:DRAW 4x,-23y:DRAW -4x,-27y:DRAW 0,-29y:DRAW 0,-34y:RETURN
3900 ' ajustable
3910 IF z=1 THEN 3930
3920 PLOT 8x,10y:DRAW 16x,-10y:GOTO 3820
3930 PLOT 10x,-10y:DRAW -10x,-22y:GOTO 3830
4000 ' potentiometre
4010 IF z=1 THEN 4030
4020 x=1:GOSUB 3630:GOTO 3820
4030 ORIGIN v+(6*x),w+(-14*y):GOSUB 3620:GOTO 3830
4100 ' condensateur
4110 IF z=1 THEN 4140
4120 GOSUB 4230
4130 PLOT -4x,0:DRAW 2x,0:PLOT 2x,5:DRAW 2x,-5:PLOT 3x,-5:DRAW 3x,5:PLOT 4
xx,5:DRAW 4x,-5:PLOT 5x,-5:DRAW 5x,5:RETURN
4140 PLOT 0,-21y:DRAW 0,-14y:PLOT 5,-14y:DRAW -5,-14y:PLOT 5,-12y:DRAW -5,-
12y:GOTO 4250
4200 ' condensateur polarise
4210 IF z=1 THEN 4240
4220 DRAW 6x,0:PLOT 12x,9:DRAW 6x,9:DRAW 6x,-9:DRAW 12x,-9
4230 PLOT 9x,5:DRAW 9x,-5:PLOT 10x,-5:DRAW 10x,5:PLOT 11x,-5:DRAW 11x,-5:PL
OT 12x,-5:DRAW 12x,5:PLOT 12x,0:DRAW 18x,0:RETURN
4240 PLOT -9,-6y:DRAW -9,-12y:DRAW 9,-12y:DRAW 9,-6y:PLOT 0,-12y:DRAW 0,-18
y
4250 PLOT 0,0:DRAW 0,-6y:PLOT -5,-6y:DRAW 5,-6y:PLOT -5,-8y:DRAW 5,-8y:RETU
RN
4300 ' circuit integre
4310 IF z=1 THEN 4340
4320 PLOT 0,15y:DRAW 6x,15y:PLOT 6x,26y:DRAW 60x,0:DRAW 6x,-26y:DRAW 6x
,26y:PLOT 0,-15y:DRAW 6x,-15y:PLOT 60x,0:DRAW 66x,0:PLOT 9x,15y:DRAW 16x
,15y
4330 PLOT 9x,-15y:DRAW 16x,-15y:PLOT 12x,18y:DRAW 12x,11y:DRAW 13x,11y:
DRAW 13x,18y:RETURN
4340 DRAW 0,-4y:DRAW 26x,-56y:DRAW 15x,-56y:DRAW 15x,-60y:DRAW 15x,-56y
:DRAW -15x,-56y:DRAW -15x,-60y:DRAW -15x,-56y:DRAW -26x,-56y:DRAW 0,-4y
:PLOT -15x,-52y:DRAW -15x,-44y
4350 PLOT 18x,-48y:DRAW 12x,-48y:PLOT -18x,-48y:DRAW -12x,-48y:RETURN
4400 ' masse/terre
4410 IF z=1 THEN 4430
4420 PLOT 12,0:DRAW 12,-4y:PLOT 6,-4y:DRAW 19,-4y:DRAW 16,-11y:PLOT 15,-4y:
DRAW 12,-11y:PLOT 11,-4y:DRAW 8,-11y:PLOT 7,-4y:DRAW 4,-11y:RETURN
4430 PLOT 11,0:DRAW 11,-14y:PLOT 1,-4y:DRAW 21,-4y:PLOT 19,-4y:DRAW 19,-8y:
PLOT 15,-4y:DRAW 15,-10y:PLOT 7,-4y:DRAW 7,-10y:PLOT 3,-4y:DRAW 3,-8y:RETU
RN
4500 ' cercles
4510 x=1:y=1:IF z=1 THEN 4530
4520 GOTO 2010
4530 GOTO 2050
4999 ' suivent les HERGES

```



```

5000 REM COL-3.BAS
5010 ' diode
5020 GOTO 2080
5100 ' pont
5110 y=1:IF x=-1 THEN 5140
5120 ORIGIN v,w+24:GOSUB 2110:ORIGIN v+30,w+24:GOSUB 2110:ORIGIN v+30,w+2:GOSUB 2110:ORIGIN v,w+2:GOSUB 2110
5130 ORIGIN v,w:PLOT 0,28:DRAW 8*x,28:DRAW 8*x,4:DRAW 19*x,4:PLOT 19*x,26:DRAW 70*x,26:PLOT 19*x,-18:DRAW 70*x,-18:PLOT 0,-28:DRAW 32*x,-28:DRAW 32*x,-22:PLOT 32*x,-14:DRAW 32*x,2:DRAW 48*x,2:RETURN
5140 ORIGIN v+150,w:GOSUB 5130:ORIGIN v-68,w+24:GOSUB 2110:ORIGIN v-38,w+24:GOSUB 2110:ORIGIN v-68,w+2:GOSUB 2110:ORIGIN v-38,w+2:GOTO 2110
5200 ' led
5210 IF z=1 THEN 5240
5220 IF x=1 THEN ORIGIN v-8,w ELSE ORIGIN v+8,w
5230 GOSUB 2050:ORIGIN v,w:PLOT -8*x,0:DRAW 0,0:PLOT -2*x,-4:DRAW -2*x,4:PLOT 0,0:GOTO 3620
5240 x=1:IF y=1 THEN ORIGIN v+9,w-5 ELSE ORIGIN v+9,w+6
5250 GOSUB 2050:ORIGIN v,w:PLOT 19,4*y:DRAW 19,-4*y:PLOT 16,-2*y:DRAW 22,-2*y:PLOT 19,4*y:GOTO 3630
5300 ' inters
5310 IF z=1 THEN 5350
5320 IF x=-1 THEN 5340
5330 GOSUB 3020:GOSUB 3320:ORIGIN v+24,w:GOSUB 3020:ORIGIN v+2,w:DRAW 21,18*x:RETURN
5340 GOSUB 3020:MOVE 0,0:DRAW 24,1:ORIGIN v+24,w:GOSUB 3020:ORIGIN v-2,w:DRAW 7,6*x:PLOT 11,10*x:DRAW 14,12*x:PLOT 18,16*x:DRAW 21,18*x:RETURN
5350 IF y=-1 THEN 5370
5360 GOSUB 3020:ORIGIN v+2*x,w+3:GOSUB 3330:ORIGIN v,w-23:GOSUB 3020:MOVE 2*x,0:DRAW 17*x,18:RETURN
5370 GOSUB 3020:MOVE 2*x,0:DRAW 2*x,-22:ORIGIN v,w-24:GOSUB 3020:ORIGIN v+2*x,w-24:DRAW -7*x,6:PLOT -10*x,10:DRAW -13*x,12:PLOT -16*x,16:DRAW -19*x,18:RETURN
5400 ' inverseur
5410 IF z=1 THEN 5430
5420 PLOT -2*x,-2*y:DRAW -20*x,8*y:PLOT -17*x,10*y:PLOT -13*x,12*y:PLOT -9*x,14*y:PLOT -5*x,16*y:ORIGIN v-2*x,w-2*y:GOSUB 3020:ORIGIN v-2*x,w+16*y:GOSUB 3020:ORIGIN v-24*x,w+8*y:GOSUB 3020:RETURN
5430 PLOT 0,-5*y:DRAW 8*x,-20*y:PLOT 10*x,-17*y:PLOT 12*x,-13*y:PLOT 14*x,-9*y:PLOT 16*x,-5*y:ORIGIN v-2*x,w-2*y:GOSUB 3020:ORIGIN v+14*x,w-2*y:GOSUB 3020:ORIGIN v+6*x,w-22*y:GOSUB 3020:RETURN
5500 ' poussoir
5510 IF z=1 THEN 5530
5520 PLOT 0,0:DRAW 20,0:PLOT 0,-2*y:DRAW 4,-2*y:PLOT 20,-2*y:DRAW 16,-2*y:PLOT 0,-6*y:DRAW 4,-6*y:PLOT 20,-6*y:DRAW 16,-6*y:PLOT -4,-8*y:DRAW 4,-8*y:PLOT 24,-8*y:DRAW 16,-8*y:RETURN
5530 PLOT 11*x,-10:DRAW 11*x,10:PLOT 10*x,-10:DRAW 10*x,10:PLOT 9*x,-10:DRAW 9*x,-6:PLOT 9*x,10:DRAW 9*x,6:PLOT 8*x,-10:DRAW 8*x,-6:PLOT 8*x,10:DRAW 8*x,6
5540 PLOT 5*x,-10:DRAW 5*x,-6:PLOT 5*x,10:DRAW 5*x,6:PLOT 4*x,-10:DRAW 4*x,-6:PLOT 4*x,10:DRAW 4*x,6:PLOT 3*x,-14:DRAW 3*x,-6:PLOT 3*x,14:DRAW 3*x,6:RETURN
5600 ' relais
5610 IF z=1 THEN 5630
5620 DRAW 0,-30:DRAW 20*x,-30:DRAW 20*x,0:DRAW 0,0:DRAW 0,-10:DRAW 20*x,-20:RETURN
5630 DRAW 30,0:DRAW 30,-20*y:DRAW 0,-20*y:DRAW 0,0:DRAW 10,0:DRAW 20,-20*y:RETURN
5700 ' fusible
5710 IF z=1 THEN 5730
5720 PLOT 0,-4:DRAW 6,-4:DRAW 11,6:DRAW 20,-13:DRAW 24,-4:DRAW 30,-4:RETURN
5730 PLOT 10,0:DRAW 10,-6:DRAW 20,-10:DRAW 0,-18:DRAW 10,-22:DRAW 10,-28:RETURN

```



```

5000 REM COL-4.BAS
5010 ' zener
5020 IF z=1 THEN 5040
5030 FOR i=0 TO 6:PLOT i*x,i:DRAW i*x,-i:PLOT -i*x,i:NEXT:DRAW -6*x,-6:PLOT -12*x,0:DRAW -6*x,0:PLOT 6*x,0:DRAW 12*x,0:RETURN
5040 PLOT 18,8*y:DRAW 18,2*y:DRAW 14,2*y:DRAW 22,2*y:DRAW 19,-4*y:GOTO 2120
5100 ' self
5110 IF z=1 THEN 5140
5120 GOSUB 5130:ORIGIN v+8,w:GOSUB 5130:ORIGIN v+16,w:GOSUB 5130:ORIGIN v+24,w:GOSUB 5130:ORIGIN v+32,w:GOTO 5130:
5130 PLOT -3,-2*y:DRAW -2,-2*y:PLOT 0,0:DRAW 2,0:PLOT 4,-2*y:DRAW 7,-2*y:PLOT 8,-4*y:DRAW 8,-7*y:DRAW 6,-10*y:DRAW 3,-7*y:DRAW 3,-4*y:PLOT 8,0:DRAW 10,0:PLOT 12,-2*y:DRAW 13,-2*y:RETURN
5140 GOSUB 5150:ORIGIN v,w-8:GOSUB 5150:ORIGIN v,w-16:GOSUB 5150:ORIGIN v,w-24:GOSUB 5150:ORIGIN v,w-32:GOTO 5150
5150 PLOT -3*x,8:PLOT -2*x,-3:DRAW -2*x,-2:PLOT 0,0:DRAW 0,2:PLOT -2*x,4:DRAW -2*x,7:PLOT -4*x,8:DRAW -7*x,8:DRAW -10*x,6:DRAW -7*x,4:DRAW -4*x,4:PLOT 0,8:DRAW 0,10:PLOT -2*x,12:DRAW -2*x,13:RETURN
5200 ' varicap
5210 IF z=1 THEN 5230
5220 PLOT -12*x,0:DRAW -6*x,0:PLOT -6*x,-4:DRAW -6*x,4:PLOT -5*x,4:DRAW -5*x,-4:PLOT 6*x,0:DRAW 11*x,0:GOTO 2100
5230 PLOT 15,-4*y:DRAW 23,-4*y:PLOT 15,0:DRAW 23,0:PLOT 19,0:DRAW 19,6*y:GOTO 2120
5300 ' quartz
5310 IF z=1 THEN 5340
5320 PLOT 0,-7:DRAW 7,-7:DRAW 7,0:DRAW 8,0:DRAW 8,-14:DRAW 7,-14:DRAW 7,-7:PLOT 12,-2:DRAW 15,-2:DRAW 15,-12:DRAW 15,-12:DRAW 15,-12:DRAW 12,-12:DRAW 12,-2
5330 PLOT 27,-7:DRAW 20,-7:DRAW 20,0:DRAW 19,0:DRAW 19,-14:DRAW 20,-14:DRAW 20,-7:RETURN
5340 PLOT 7,0:DRAW 7,-7:DRAW 0,-7:DRAW 14,-7:PLOT 12,-10:DRAW 2,-10:DRAW 2,-14:DRAW 12,-14:DRAW 12,-10:PLOT 7,-25:DRAW 7,-19:DRAW 14,-19:DRAW 0,-19:RETURN
5400 ' freq. intermed.
5410 IF z=1 THEN 5450
5420 xr=1:yr=1:GOSUB 5430:yr=-1:GOSUB 5430:ORIGIN v-4,w:xr=-1:yr=1:GOSUB 5430:yr=-1:GOSUB 5430
5430 PLOT 0,0:DRAW 0,2*yr:PLOT 0,6*yr:DRAW 0,10*yr:PLOT 0,14*yr:DRAW 0,18*yr:PLOT 4*yr,0:DRAW 4*yr,10*yr:PLOT 5*yr,0:DRAW 5*yr,10*yr:PLOT 6*yr,0:DRAW 6*yr,10*yr:DRAW 14*yr,10*yr:PLOT 10*yr,14*yr:DRAW 10*yr,18*yr:DRAW 6*yr,18*yr:PLOT 10*yr,4*yr
5440 PLOT 10*yr,6*yr:RETURN
5450 xr=1:yr=1:GOSUB 5460:yr=-1:GOSUB 5460:ORIGIN v,w-4:yr=-1:GOSUB 5460:yr=1:GOSUB 5460
5460 PLOT 0,0:DRAW 2*yr,0:PLOT 6*yr,0:DRAW 10*yr,0:PLOT 14*yr,0:DRAW 18*yr,0:PLOT 0,4*yr:DRAW 10*yr,4*yr:PLOT 0,6*yr:DRAW 10*yr,6*yr:DRAW 10*yr,14*yr:PLOT 14*yr,10*yr:DRAW 18*yr,10*yr:DRAW 18*yr,6*yr:PLOT 4*yr,10*yr:DRAW 6*yr,10*yr:RETURN
5500 ' npn
5510 IF z=1 THEN 5530
5520 PLOT 18*x,4*y:DRAW 28*x,12*y:PLOT 18*x,-4*y:DRAW 28*x,-10*y:DRAW 28*x,-6*y:DRAW 22*x,-12*y:DRAW 28*x,-12*y:PLOT 27*x,-8*y:DRAW 24*x,-12*y:GOTO 5740
5530 PLOT 14*x,0:DRAW 4*x,6*y:PLOT 23*x,-3*y:DRAW 34*x,8*y:PLOT 4*x,8*y:DRAW 10*x,8*y:PLOT 4*x,2*y:DRAW 4*x,6*y:DRAW 8*x,6*y:PLOT 5*x,4*y:PLOT 6*x,5*y:GOTO 5750
5600 ' pnp
5610 IF z=1 THEN 5630
5620 PLOT 18*x,4*y:DRAW 28*x,15*y:PLOT 18*x,-4*y:DRAW 28*x,-15*y:PLOT 23*x,-15*y:DRAW 23*x,-11*y:DRAW 28*x,-11*y:DRAW 23*x,-15*y:DRAW 25*x,-11*y:GOTO 5740
5630 PLOT 15*x,-2*y:DRAW 4*x,8*y:PLOT 22*x,-2*y:DRAW 34*x,8*y:PLOT 29*x,10*y:DRAW 29*x,5*y:DRAW 34*x,5*y:GOTO 5750
5700 ' fet
5710 IF z=1 THEN 5730
5720 DRAW 1*x,0:PLOT 18*x,6:DRAW 33*x,6:PLOT 18*x,-6:DRAW 33*x,-6:y=1:GOTO 5740
5730 PLOT 12,-2*y:DRAW 12,14*y:PLOT 11,-2*y:DRAW 11,14*y:PLOT 25,-2*y:DRAW 25,14*y:PLOT 24,-2*y:DRAW 24,14*y:x=1:GOTO 5750
5740 PLOT 14*x,0:DRAW 14*x,11*y:DRAW 14*x,-11*y:DRAW 15*x,11*y:DRAW 15*x,-11*y:DRAW 16*x,11*y:DRAW 16*x,-11*y:DRAW 17*x,-11*y:DRAW 17*x,11*y:DRAW 18*x,11*y:DRAW 18*x,-11*y:DRAW 18*x,11*y:PLOT 18*x,0:GOTO 2010
5750 PLOT 7*x,0:DRAW 30*x,0:PLOT 7*x,-2*y:DRAW 30*x,-2*y:PLOT 18*x,-2*y:DRAW 18*x,-18*y:PLOT 17*x,-2*y:DRAW 17*x,-18*y:GOTO 2010

```



```

5000 REM COL-5.BAS
5010 ' and
5020 IF z=1 THEN 5040
5030 GOSUB 5850:PLOT -7*x,-7:DRAW -1*x,-7:PLOT -7*x,-22:DRAW -1*x,-22:PLOT -1*x,
1:DRAW -1*x,-28:RETURN
5040 GOSUB 5860:PLOT -7,-7*y:DRAW -7,-1*y:PLOT -22,-7*y:DRAW -22,-1*y:PLOT -2,-1
*y:DRAW -27,-1*y:RETURN
5100 ' nand
5110 IF z=1 THEN 5130
5120 GOSUB 5030:GOTO 5670
5130 GOSUB 5040:GOTO 5680
5200 ' or
5210 IF z=1 THEN 5230
5220 PLOT -5*x,-7:DRAW 2*x,-7:PLOT -5*x,-22:DRAW 2*x,-22:PLOT 0,0:GOSUB 5850:PL
T 0,0:DRAW 5*x,-10:PLOT 6*x,-12:PLOT 6*x,-14:PLOT 0,-28:DRAW 5*x,-18:PLOT 6*x,-1
6:PLOT 6*x,-14:RETURN
5230 PLOT -7,-5*y:DRAW -7,1*y:PLOT -22,-5*y:DRAW -22,1*y:PLOT -2,0:GOSUB 5860:PL
OT -2,0:DRAW -10,5*y:PLOT -12,6*y:DRAW -16,6*y:PLOT -28,0:DRAW -18,5*y:RETURN
5300 ' nor
5310 IF z=1 THEN 5330
5320 GOSUB 5220:GOTO 5670
5330 GOSUB 5230:GOTO 5680
5400 ' exor
5410 IF z=1 THEN 5430
5420 GOSUB 5220:PLOT -10*x,-6:DRAW -5*x,-6:PLOT -10*x,-22:DRAW -5*x,-22:PLOT -6*
x,0:DRAW -1*x,-10:PLOT 0,-12:PLOT 0,-14:PLOT -6*x,-28:DRAW -1*x,-18:PLOT 0,-18:P
LOT 0,-14:RETURN
5430 GOSUB 5230:PLOT -7,-10*y:DRAW -7,-5*y:PLOT -22,-10*y:DRAW -22,-5*y:PLOT -2,
-6*y:DRAW -10,-2*y:PLOT -12,0:DRAW -16,0:PLOT -28,-6*y:DRAW -18,-2*y:RETURN
5500 ' exnor
5510 IF z=1 THEN 5530
5520 GOSUB 5420:GOTO 5670
5530 GOSUB 5430:GOTO 5680
5600 ' no
5610 IF z=1 THEN 5630
5620 PLOT -6*x,-12:DRAW 0,-12:PLOT 0,0:DRAW 24*x,-12:DRAW 0,-24:DRAW 0,0:PLOT 24
*x,-12:DRAW 30*x,-12:PLOT 24*x,-10:DRAW 26*x,-10:PLOT 24*x,-14:DRAW 28*x,-14:RET
URN
5630 PLOT -12,-6*y:DRAW -12,y:PLOT 0,0:DRAW -12,24*y:DRAW -24,y:DRAW 0,0:PLOT -1
2,24*y:DRAW -12,30*y:PLOT -10,26*y:DRAW -14,26*y:RETURN
5640 ' S/P portes
5650 DRAW 24*x,0:PLOT 26*x,-2:DRAW 29*x,-4:DRAW 30*x,-6:DRAW 32*x,-10:DRAW 32*x,
-12:PLOT 0,-28:DRAW 20*x,-28:PLOT 21*x,-28:DRAW 24*x,-28:PLOT 26*x,-26:DRAW 29*x
,-24:DRAW 30*x,-22:DRAW 32*x,-18:DRAW 32*x,-16:PLOT 32*x,-14:DRAW 42*x,-14:RETUR
N
5680 PLOT -2,0:DRAW -2,24*y:PLOT -3,26*y:PLOT -4,28*y:PLOT -6,30*y:PLOT -8,32*y:
PLOT -11,35*y:DRAW -19,35*y:PLOT -28,0:DRAW -28,24*y:PLOT -27,26*y:PLOT -26,28*y
:PLOT -24,30*y:PLOT -22,32*y:PLOT -15,34*y:DRAW -15,42*y:RETURN
5670 PLOT 32*x,-16:DRAW 36*x,-18:PLOT 32*x,-12:DRAW 36*x,-12:RETURN
5680 PLOT -17,36*y:DRAW -13,38*y:PLOT -17,38*y:DRAW -13,38*y:RETURN
5700 ' accu
5710 ORIGIN v,w:IF z=1 THEN 5730
5720 PLOT 0,0:DRAW 20,0:PLOT 6,4*y:DRAW 14,4*y:PLOT 6,6*y:DRAW 14,6*y:RETURN
5730 PLOT 11*x,-10:DRAW 11*x,10:PLOT 10*x,-10:DRAW 10*x,10:PLOT 6*x,-4:DRAW 6*x,
4:PLOT 5*x,-4:DRAW 5*x,4:PLOT 4*x,-4:DRAW 4*x,4:RETURN

```



```

00 REM PLUS.DAT
20 MEMORY &A2FF:ad=&A300
30 WHILE ad<=&A59B
40 t=0:FOR i=1 TO 56:READ v$:v=VAL("&"+v$)
50 POKE ad,v:t=t+v:ad=ad+1:NEXT
60 READ b,a:IF a<>t THEN PRINT "ERREUR DANS LE BLOC":b:STOP
70 WEND
80 PRINT "SAVE ";CHR$(34); "PLUS.BIN":CHR$(34); ",B,&A300,&029B
90 END

100 ' --- BLOCK 1 ---
110 DATA 3A,2B,BD,32,A9,A4,2A,2C
120 DATA BD,22,C9,A4,CD,73,A3,CD
130 DATA AA,A4,CD,16,A3,C9,01,24
140 DATA A3,21,1F,A3,CD,D1,BC,FC
150 DATA A6,24,A3,C9,3E,A3,C3,B4
160 DATA A3,C3,D2,A3,C3,F8,A3,C3
170 DATA 58,A4,C3,85,A4,C3,9C,A4
180 DATA 1,8199
190 ' --- BLOCK 2 ---
200 DATA C3,AA,A4,C3,CB,A4,4C,4F
210 DATA 41,44,49,4D,C7,53,41,56
220 DATA 45,49,4D,C7,52,45,56,45
230 DATA 52,53,45,C8,52,45,56,45
240 DATA 52,53,45,D8,49,4E,56,49
250 DATA 44,45,CF,42,49,54,B7,42
260 DATA 49,54,B8,50,52,49,4E,54
270 DATA 2,5738
280 ' --- BLOCK 3 ---
290 DATA 45,D2,00,2A,80,BC,22,B1
300 DATA A3,3A,82,BC,32,B3,A3,3E
310 DATA C3,32,80,BC,21,8B,A3,22
320 DATA 81,BC,C9,E5,2A,B1,A3,22
330 DATA 80,BC,3A,B3,A3,32,82,BC
340 DATA CD,80,BC,21,8B,A3,22,81
350 DATA BC,21,80,BC,36,C3,E1,D8
360 DATA 3,7264
370 ' --- BLOCK 4 ---
380 DATA C8,FE,1A,37,3F,C0,B7,37
390 DATA C9,00,00,00,DD,6E,00,DD
400 DATA 66,01,46,23,5E,23,56,EB
410 DATA 11,00,9B,CD,77,BC,30,06
420 DATA 21,00,C0,CD,83,BC,CD,7A
430 DATA BC,C9,DD,6E,00,DD,66,01
440 DATA 46,23,5E,23,56,EB,11,00
450 DATA 4,5889
460 ' --- BLOCK 5 ---
470 DATA 9B,CD,8C,BC,30,0E,21,00
480 DATA C0,11,00,00,01,00,00,3E
490 DATA 02,CD,98,BC,CD,8F,BC,C9
500 DATA 06,C8,21,00,C0,C5,E5,E5
510 DATA 11,4F,00,19,EB,E1,06,28
520 DATA 7E,CD,25,A4,32,24,A4,1A
530 DATA CD,25,A4,77,3A,2A,A4,12
540 DATA 5,5725
550 ' --- BLOCK 6 ---
560 DATA 23,1B,10,EC,E1,CD,26,BC
570 DATA C1,10,DA,C9,00,0E,00,CB
580 DATA 47,28,02,CB,F9,CB,4F,28
590 DATA 02,CB,F1,CB,57,28,02,CB
600 DATA E9,CB,5F,28,02,CB,E1,CB
610 DATA 87,28,02,CB,D9,CB,6F,28
620 DATA 02,CB,D1,CB,77,28,02,CB
630 DATA 6,6787

640 ' --- BLOCK 7 ---
650 DATA C9,CB,7F,28,02,CB,C1,79
660 DATA C9,21,00,C0,11,80,FF,08
670 DATA 50,C5,E5,D5,06,64,7E,32
680 DATA 84,A4,1A,77,3A,84,A4,12
690 DATA CD,26,BC,E5,EB,CD,29,BC
700 DATA EB,E1,10,EA,D1,13,E1,23
710 DATA C1,10,DE,C9,00,21,00,C0
720 DATA 7,7120
730 ' --- BLOCK 8 ---
740 DATA 08,50,C5,E5,06,C8,7E,2F
750 DATA 77,CD,26,BC,10,F8,E1,23
760 DATA C1,10,EF,C9,3A,A9,A4,32
770 DATA 2B,BD,2A,C9,A4,22,2C,BD
780 DATA C9,00,3E,C3,32,2B,BD,21
790 DATA B6,A4,22,2C,BD,C9,F5,C5
800 DATA CB,7F,20,05,01,00,F6,18
810 DATA 8,6628
820 ' --- BLOCK 9 ---
830 DATA 03,01,20,F6,ED,49,C1,F1
840 DATA CF,00,00,FE,01,20,07,7B
850 DATA FE,00,28,02,18,02,3E,01
860 DATA 32,9A,A5,CD,82,A5,3E,1B
870 DATA CD,BD,A5,3E,33,CD,BD,A5
880 DATA 3E,1B,CD,8D,A5,21,00,C0
890 DATA 22,98,A5,CD,1B,BB,FE,51
900 DATA 9,6051
910 ' --- BLOCK 10 ---
920 DATA CA,82,A5,3E,0A,CD,8D,A5
930 DATA 3A,9A,A5,47,C5,2A,96,A5
940 DATA 3E,0D,CD,8D,A5,3E,1B,CD
950 DATA 8D,A5,3E,2A,CD,8D,A5,3E
960 DATA 04,CD,8D,A5,3E,80,CD,8D
970 DATA A5,3E,02,CD,8D,A5,3E,50
980 DATA 32,98,A5,16,80,3E,08,32
990 DATA 10,6515
1000 ' --- BLOCK 11 ---
1010 DATA 99,A5,E5,06,04,0E,00,7E
1020 DATA A2,28,08,37,CB,11,37,CB
1030 DATA 11,18,06,AF,CB,11,AF,CB
1040 DATA 11,CD,26,BC,10,E9,79,CD
1050 DATA 8D,A5,AF,CB,1A,E1,3A,99
1060 DATA A5,3D,FE,00,20,D1,23,3A
1070 DATA 98,A5,3D,FE,00,20,C1,C1
1080 DATA 11,6293
1090 ' --- BLOCK 12 ---
1100 DATA 10,9A,2A,96,A5,06,04,CD
1110 DATA 26,BC,10,FB,3E,C7,BC,C2
1120 DATA F0,A4,3E,D0,BD,28,03,C3
1130 DATA F0,A4,3E,1B,CD,8D,A5,3E
1140 DATA 40,CD,8D,A5,C9,CD,2E,BD
1150 DATA 38,FB,CD,2B,BD,C9,00,00
1160 DATA 00,00,00,00,00,00,00,00
1170 DATA 12,6206
1180 ' --- FIN ---

```

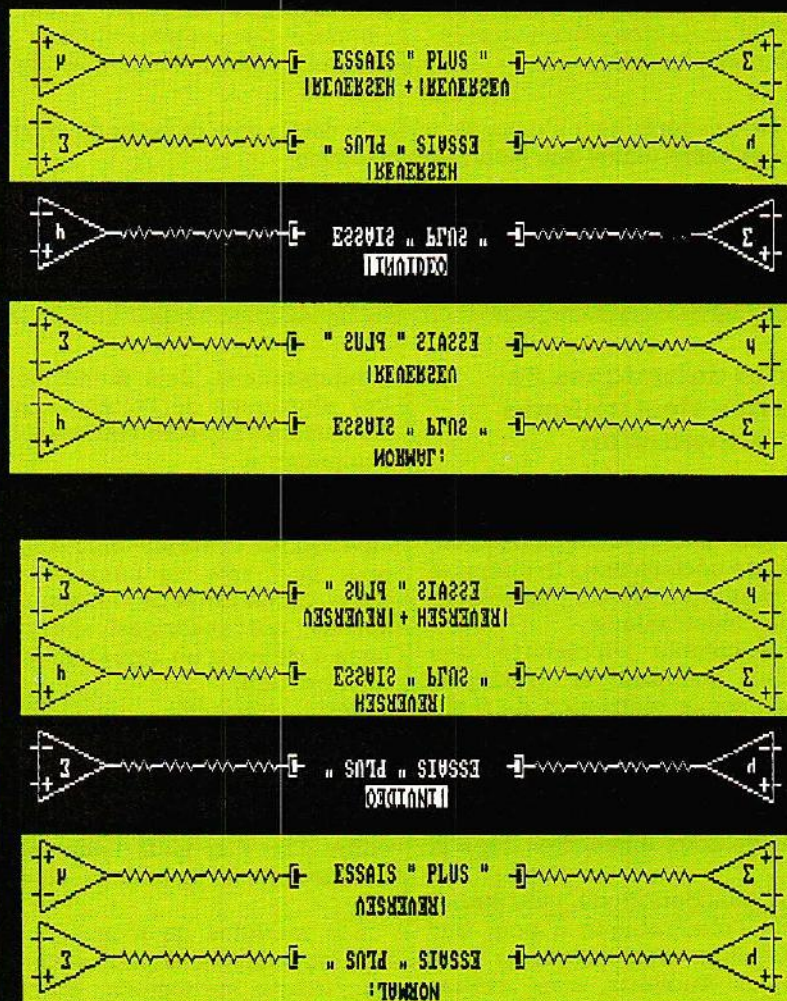
Figure 5


```

1 REM PLUS.BAS
10 MODE 2
20 MEMORY &9AFF
30 LOAD "PLUS.BIN",&A300
40 CALL &A300
50 PRINT:PRINT,:PRINT,CHR$(24);" MERGE ET 8 BITS INTERNES EN SERVICE ";CHR$(24)
60 PRINT:PRINT " INSTRUCTIONS RSX INSTALLEES":PRINT
70 PRINT:PRINT, " :LOADING -> CHARGEMENT D'UN ECRAN (***)"
80 PRINT:PRINT, " :SAVEIMG -> SAUVEGARDE D'UN ECRAN (***)"
90 PRINT:PRINT, " :REVERSEH -> INVERSION HORIZONTALE DE L'ECRAN"
100 PRINT:PRINT, " :REVERSEV -> INVERSION VERTICALE DE L'ECRAN"
110 PRINT:PRINT, " :INVIDEO -> INVERSION VIDEO DE L'ECRAN"
120 PRINT:PRINT, " :BIT7 -> RETABLISSEMENT 7 BITS STANDARD"
130 PRINT:PRINT, " :BITS -> REPASSAGE EN 8 BITS"
140 PRINT:PRINT, " :PRINTER -> HARDCOPY 8 BITS"
150 PRINT:PRINT, "(***) ATTENTION, sur 464 proceder ainsi:
160 PRINT, " ;CHR$(24);"a$= NOM ";CHR$(24);"::(loading)(saveimg);CHR$(24);
" ,a$ ";CHR$(24)
200 NEW

```

Figure 6





CHAO (une extension de SAO)