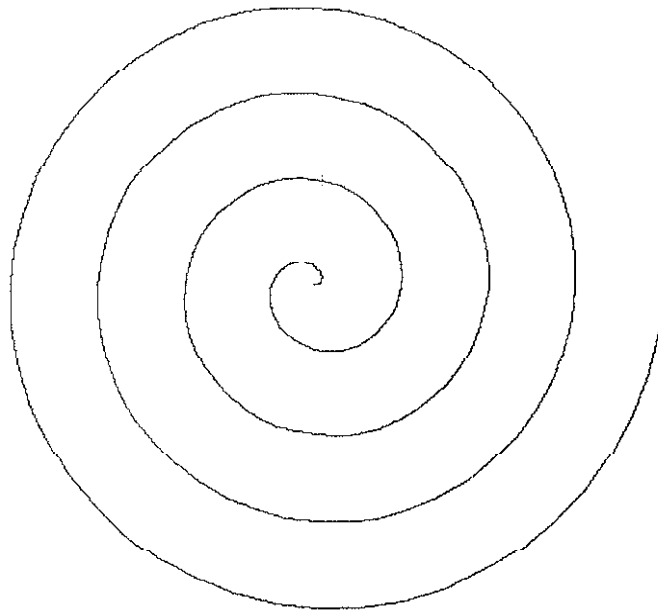




ARCHIMEDIAN SPIRAL

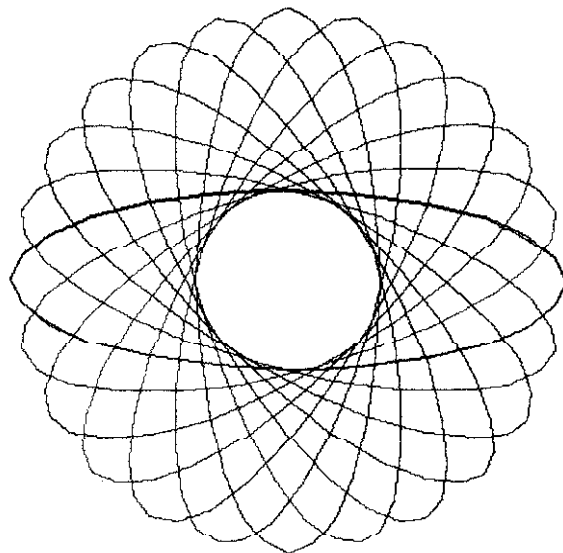


LIST

```
10 OPEN4,6,0:OPEN1,6,1
20 PRINT#4:PRINT#4:PRINT#4,"ARCHIMEDIAN
SPIRAL"
30 OPEN2,6,2:PRINT#2,"0" :REM BLACK
40 PRINT#1,"M";240,-200
50 PRINT#1,"I"
60 P=9:A=4
70 FORTH=0TO(A*2*π)STEP(π/24)
80 X=P*TH*COS(TH)
90 Y=P*TH*SIN(TH)
100 IFTH=0THENPRINT#1,"R";X,Y:GOTO120
110 PRINT#1,"J";X,Y
120 NEXTTH
130 PRINT#1,"R":0,-240
140 PRINT#4:PRINT#4:PRINT#4
150 OPEN7,6,7:PRINT#7
160 CLOSE4:CLOSE1:CLOSE2:CLOSE7
READY.
```



ROTATING ELIPSE



```

10 OPEN4,6,0:OPEN1,6,1
20 PRINT#4:PRINT#4,"ROTATING ELIPSE"
30 OPEN2,6,2:PRINT#2,"3":REM RED
40 PRINT#1,"M";240,-200
50 PRINT#1,"I"
60 A=180:B=60:TH=π/180
70 FORJ=0TO180STEP15
80 FORI=0TO360STEP15
90 R=A*COS(I*TH)
100 L=B*SIN(I*TH)
110 X=R*COS(J*TH)-L*SIN(J*TH)
120 Y=R*SIN(J*TH)+L*COS(J*TH)
130 IFI=0THENPRINT#1,"R";X,Y:GOTO150
140 PRINT#1,"J";X,Y
150 NEXTI
160 NEXTJ
170 PRINT#1,"R";0,-200
180 PRINT#4:PRINT#4:PRINT#4
190 OPEN7,6,7:PRINT#7
200 CLOSE4:CLOSE1:CLOSE2:CLOSE7
READY.
■

```