

```
10 MODE 2:ORIGIN 320,200:xs=4:ys=4
20 a=320:b=a*a:c=200
30 FOR x=a TO 0 STEP -xs:s=x*x:p=SQR
R(b-s)
40 FOR i=-p TO p STEP 6*ys
50 r=SQR(s+i*i)/a
60 q=(r-1)*SIN(16-r)
70 y=i/3+q*c
80 IF i=-p THEN m=y:GOTO 110
90 IF y>m THEN m=y:GOTO 120
100 IF y>=n THEN GOTO 130
110 n=y
120 PLOT -x,y:PLOT x,y
130 NEXT:NEXT
140 END
```