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x = x + 1, y remains same p1 = p1 + 2·ry²·x + ry²

Is p1<0

Initialize first points x=0, y=ry

Input xc,yc,rx,ry

Declare variables xc,yc,rx,ry,x,y,p1,p2

p2 = ry²·(x + 0.5)² + rx²·(y - 1)² - rx²·ry²

draw and plot 4 way symmetric points

draw and plot 4 way symmetric points

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x = x + 1, y remains same p2 = p2 + 2·ry²·x - 2·rx²·y + rx²

x remains same, y = y – 1 p2 = p2 - 2·rx²·y + rx²

Is p2>0

is y>=0?

x remains same, y = y – 1 p1 = p1 + 2·ry²·x - 2·rx²·y + ry²

is 2·ry²·x < 2·rx²·y

F

Calculate p1 = ry² - rx²·ry + (1/4)·rx²