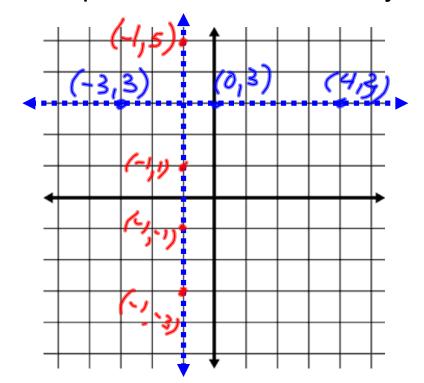
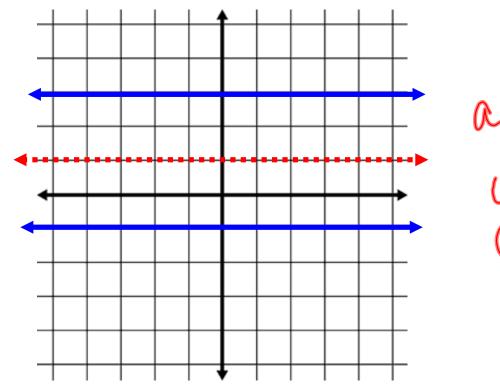
Do-now:

- 1. Take out Locus Theorem notes
- 2. Graph the lines x = -1 and y = 3.

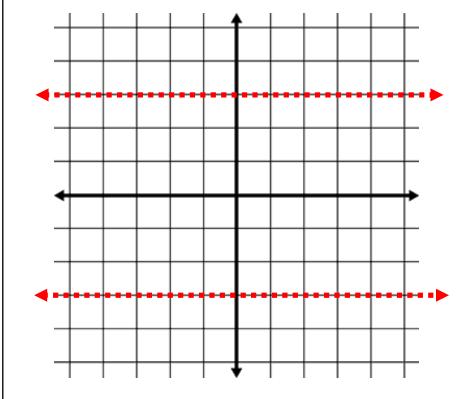


What is the locus of points equidistant from the lines y = 3 and y = -1.



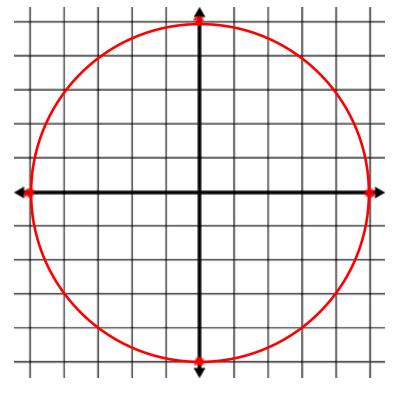
aline u=1

Graph the locus of points 3 units from the x-axis.



Parallel Ines y=3, y=-3

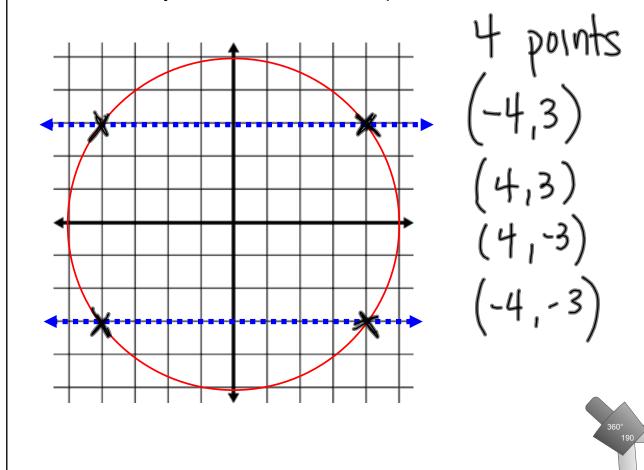
Graph the locus of points 5 units away from the origin.



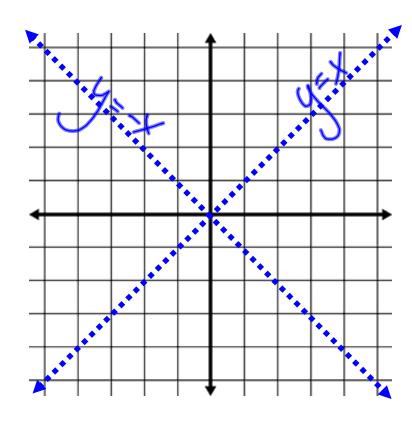
$$CIVCLe$$

$$X^2 + y^2 = 25$$

How many points are both 5 units from the origin and 3 units from the x-axis? Identify the coordinates of the points of intersection.

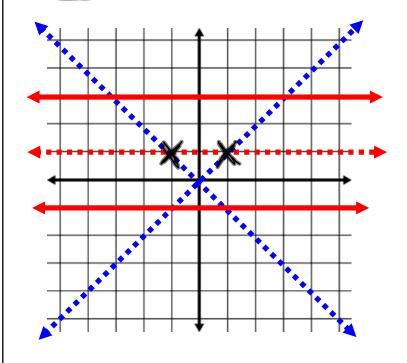


What is the locus of points equidistant from the *x* and *y* axes?



Intersecting lines y=x

Graph the locus of points equidistant from the x and y axes AND equidistant from the lines y = 3 and y = -1?



2 points (1,1) (-1,1)

