

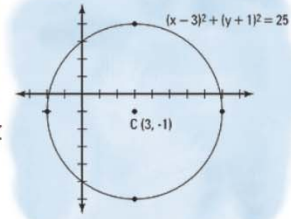
Name :

Class :



Graphing circle

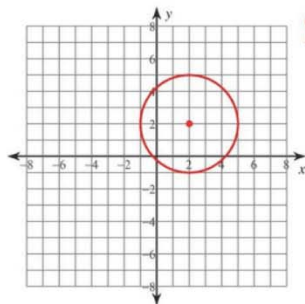
A circle graph is the intersection graph of a set of chords of a circle.



Identify the center and radius of each. Then sketch the graph.

1)

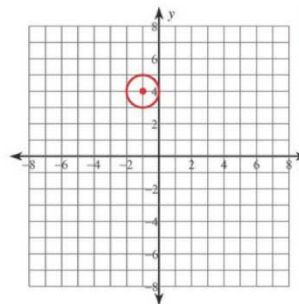
$$(x-2)^2 + (y-2)^2 = 9$$



Center: (2, 2)
Radius: 3

2)

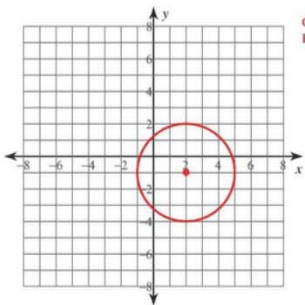
$$(x+1)^2 + (y-4)^2 = 1$$



Center: (-1, 4)
Radius: 1

3)

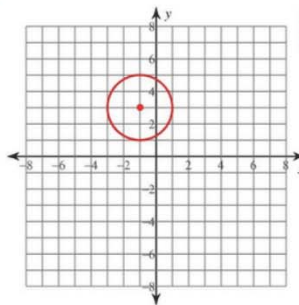
$$-4x + 2y - 4 = -y^2 - x^2$$



Center: (2, -1)
Radius: 3

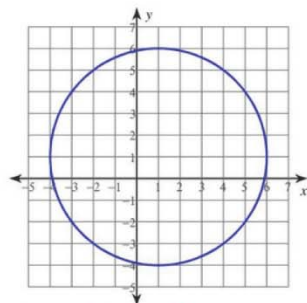
4)

$$6 = -2x - x^2 - y^2 + 6y$$

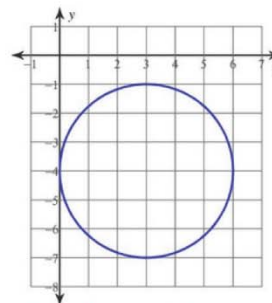


Center: (-1, 3)
Radius: 2

Use the information provided to write the equation of each circle.



$$(x-1)^2 + (y-1)^2 = 25$$



$$(x-3)^2 + (y+4)^2 = 9$$