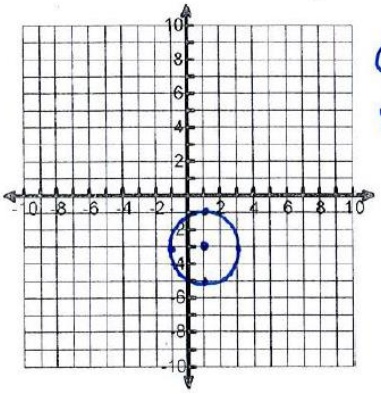
GSE PreCalculus: Unit 2 – Conics
WS 2.1: Circles

Name_____
Date_____ Period_____

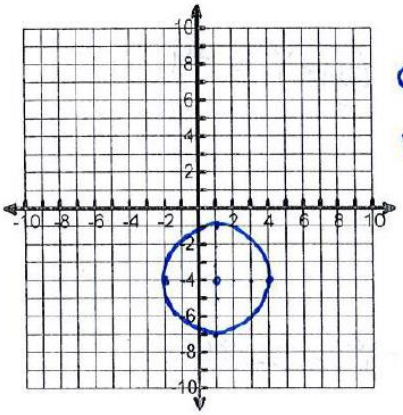
Identify the center and radius of each graph. Then sketch the graph.

1. $(x-1)^2+(y+3)^2=4$



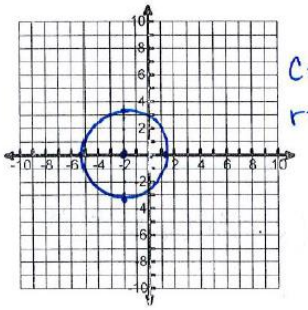
C = (1, -3)
r = 2

3. $(x-1)^2+(y+4)^2=9$



C = (1, -4)
r = 3

5. $(x+2)^2+y^2=10$



C = (-2, 0)
r = 3.16

7. Center (2, -1), radius = 4

$(x-2)^2+(y+1)^2=16$

9. Center (3, -2), and (-1, 1) is a point on the circle

$r=\sqrt{(-1-3)^2+(1-2)^2}$
$r=\sqrt{16+9}$
$r=\sqrt{25}$

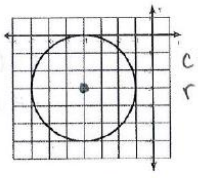
$(x-3)^2+(y+2)^2=25$

11. Center (2, 3) and Area = 25π

$A=25\pi=\pi r^2$
$\frac{25\pi}{\pi}=\frac{\pi r^2}{\pi}$
$25=r^2$
$5=r$

$(x-2)^2+(y-3)^2=25$

13.



C = -4, -3
r = 3

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