Geometry Name_____ ID: 1

Equations of Circles Homework

Date_____ Period____

Identify the center and radius of each.

1) $(x-13)^2+(y+10)^2=25$

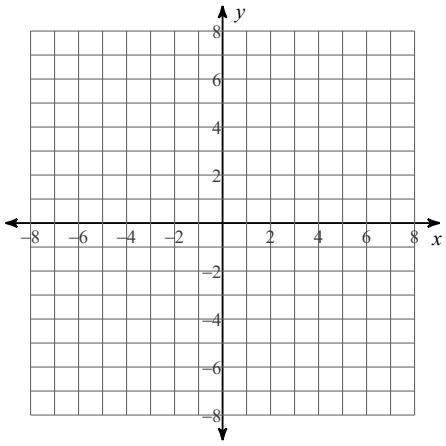
2) $(x-8)^2+(y-1)^2=49$

3) $(x-12)^2+(y+11)^2=16$

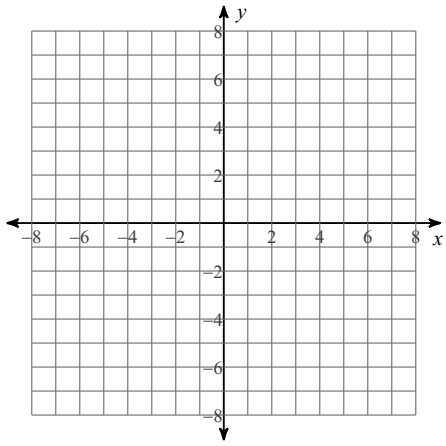
4) $(x+2)^2+(y+4)^2=81$

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

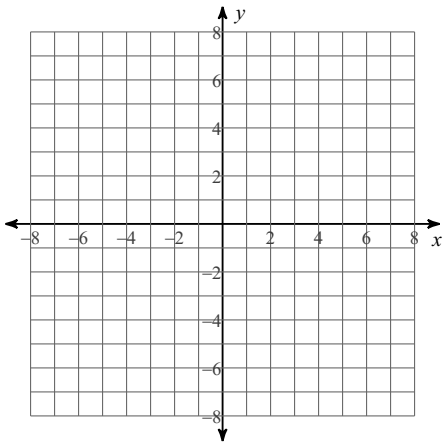
5) $(x-3)^2+(y-2)^2=4$



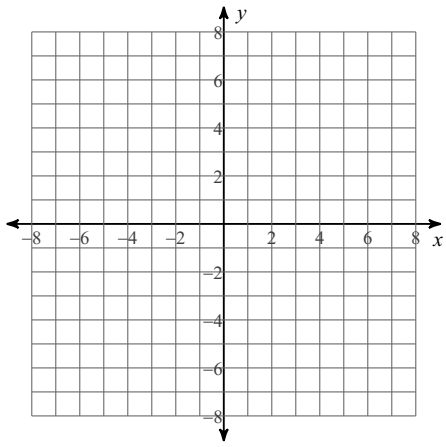
6) $(x+1)^2+(y-2)^2=4$



7) $(x-1)^2+(y-1)^2=9$



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



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

9) Center: $(10, 6)$
Radius: 6

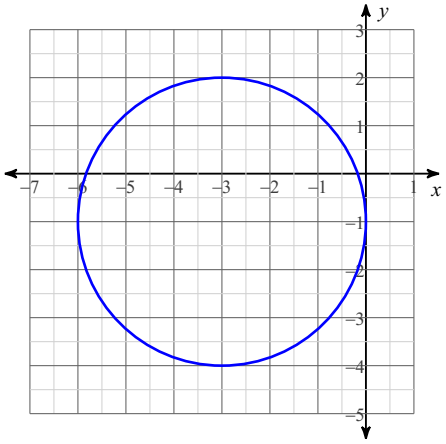
10) Center: $(-5, 1)$
Radius: 6

11) Center: $(14, 8)$
Radius: $2\sqrt{6}$

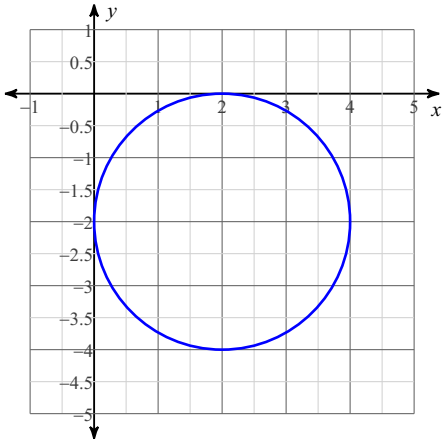
12) Center: $(-10, 5)$
Radius: 2

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

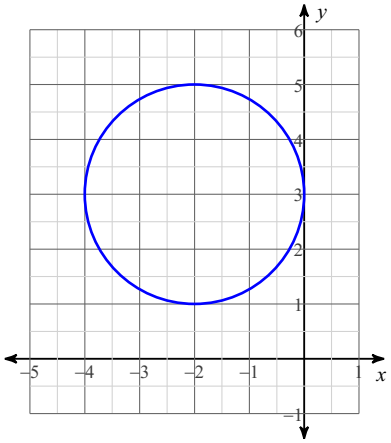
13)



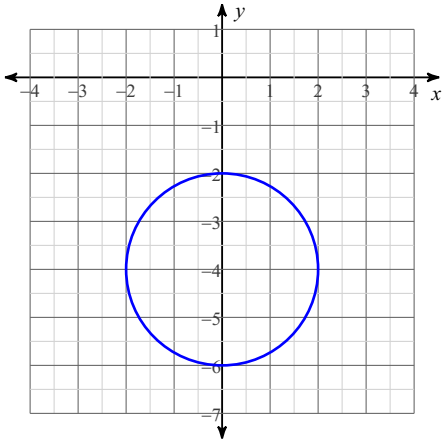
14)



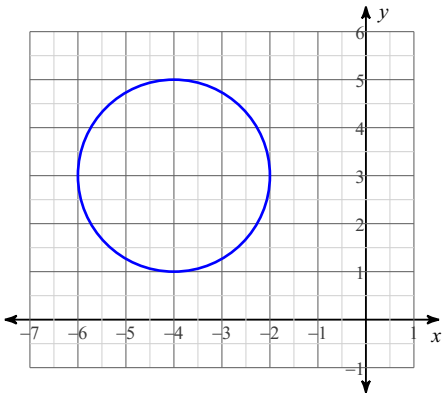
15)



16)



17)



18)