Name _____ Date _____
Mr. Schlansky Geometry

Graphing Circles

1. What are the center and the radius of the circle whose equation is $(x+5)^2+(y-1)^2=4$

1) center = $(5,-1)$; radius = 4
2) center = $(-5,1)$; radius = 4
3) center = $(5,-1)$; radius = 2
4) center = $(-5,1)$; radius = 2

2. What are the center and the radius of the circle whose equation is $(x-3)^2+(y+4)^2=36$

1) center = $(3,-4)$; radius = 6
2) center = $(-3,4)$; radius = 6
3) center = $(3,-4)$; radius = 36
4) center = $(-3,4)$; radius = 36

3. The equation of a circle is $x^2+(y-7)^2=\frac{25}{16}$. What are the center and radius of the circle?

1) center = $(0,7)$; radius = $\frac{5}{4}$
2) center = $(0,7)$; radius = $\frac{25}{16}$
3) center = $(0,-7)$; radius = $\frac{5}{4}$
4) center = $(0,-7)$; radius = $\frac{25}{16}$

4. What are the center and the radius of the circle whose equation is $(x-3)^2+(y+3)^2=36$

1) center = $(3,-3)$; radius = 6
2) center = $(-3,3)$; radius = 6
3) center = $(3,-3)$; radius = 36
4) center = $(-3,3)$; radius = 36

5. What are the center and the radius of the circle whose equation is $(x-5)^2+(y+3)^2=16$?

1) $(-5,3)$ and 16
2) $(5,-3)$ and 16
3) $(-5,3)$ and 4
4) $(5,-3)$ and 4

6. The equation of a circle is $(x-4)^2+(y-5)^2=\frac{49}{4}$. What are the center and radius of the circle?

1) center = $(-4,-5)$; radius = $\frac{49}{4}$

2) center = $(-4,-5)$; radius = $\frac{7}{2}$

3) center = $(4,5)$; radius = $\frac{49}{4}$

4) center = $(4,5)$; radius = $\frac{7}{2}$

7. A circle is represented by the equation $x^2+(y+3)^2=13$. What are the coordinates of the center of the circle and the length of the radius?

1) $(0,3)$ and 13

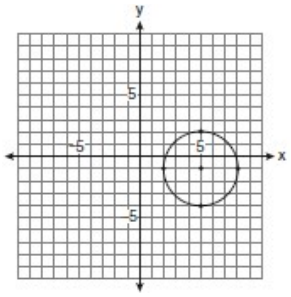
2) $(0,3)$ and $\sqrt{13}$

3) $(0,-3)$ and 13

4) $(0,-3)$ and $\sqrt{13}$

8. Which graph represents a circle with the equation $(x-5)^2+(y+1)^2=9$?

1)



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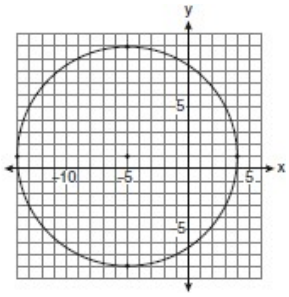

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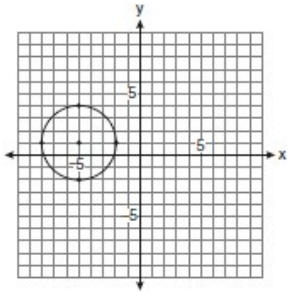

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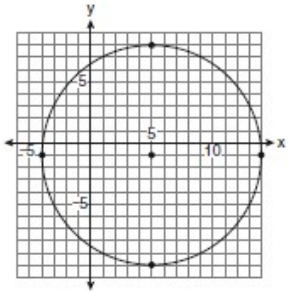
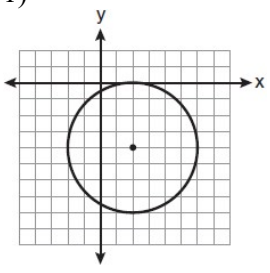


9. The equation of a circle is $(x-2)^2+(y+4)^2=4$. Which diagram is the graph of the circle?

1)



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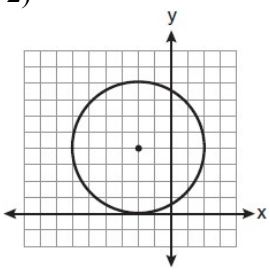

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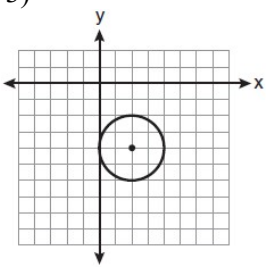

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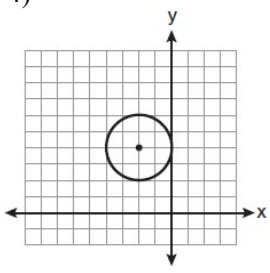
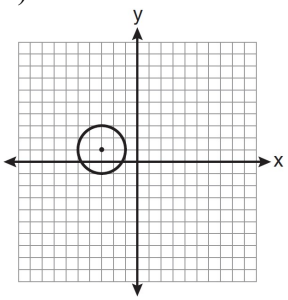
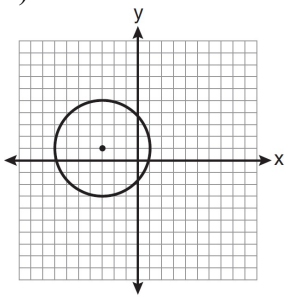
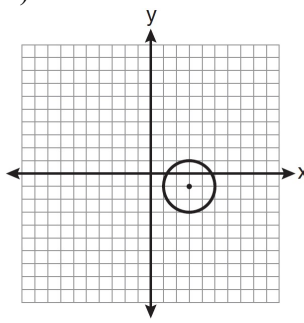
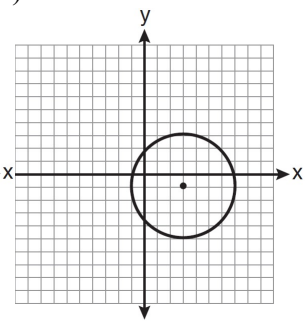


10. Which graph represents a circle with the equation $(x-3)^2+(y+1)^2=4$?

1) 

2) 

3) 

4) 

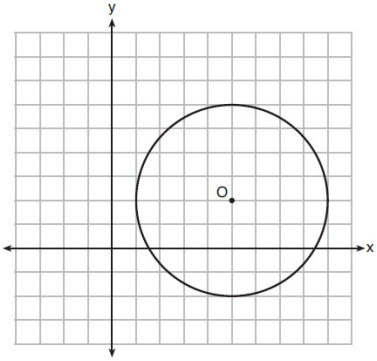
11. Which of the following is the equation of the given circle?

$(x-5)^2+(y-2)^2=16$

$(x+5)^2+(y+2)^2=16$

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

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



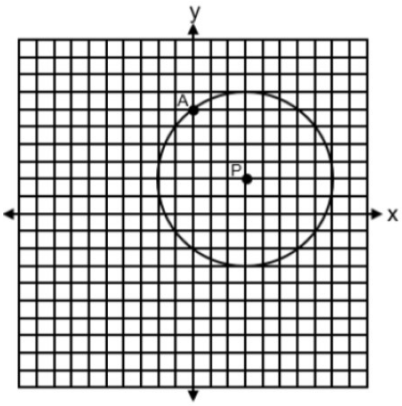
12. Which of the following is the equation of the given circle?

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

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

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

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



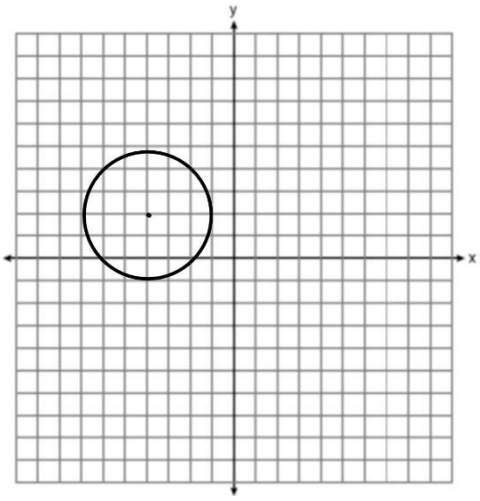
13. Which of the following is the equation of the given circle?

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

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

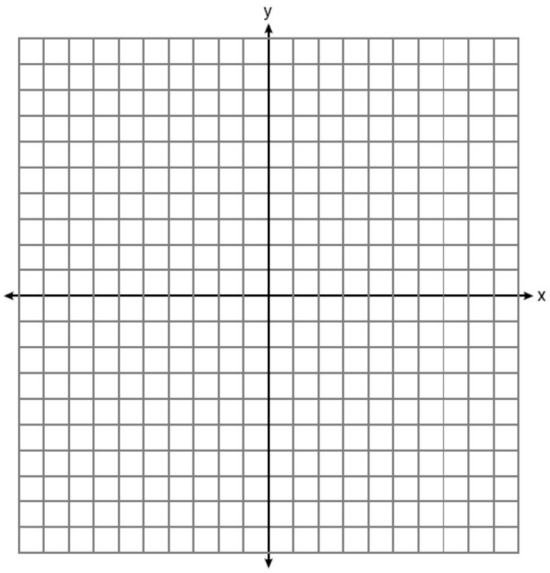
$(x+4)^2+(y-2)^2=9$

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

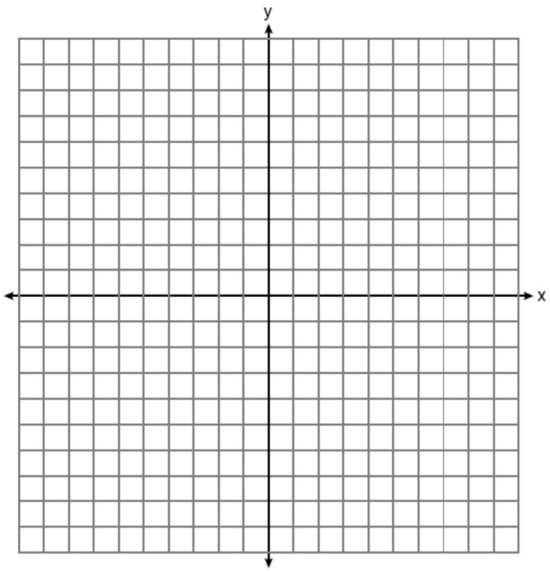


Graph the following circles on the provided graphs

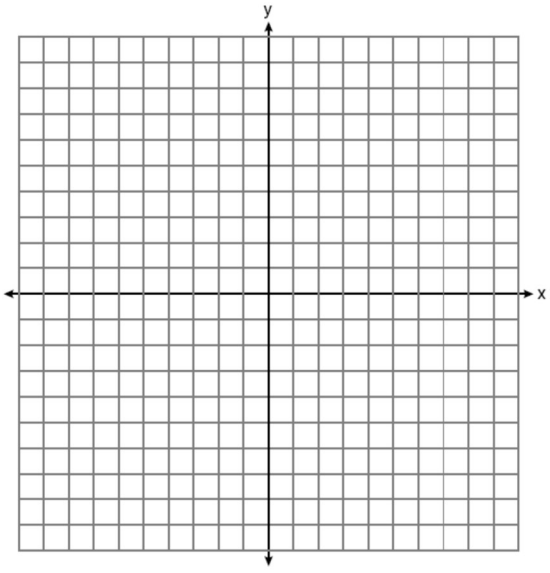
14. $(x-4)^2+(y+1)^2=9$



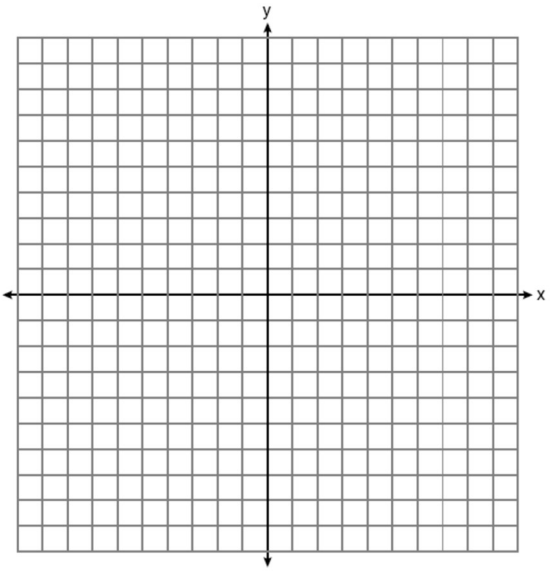
15. $(x+3)^2+(y-2)^2=16$



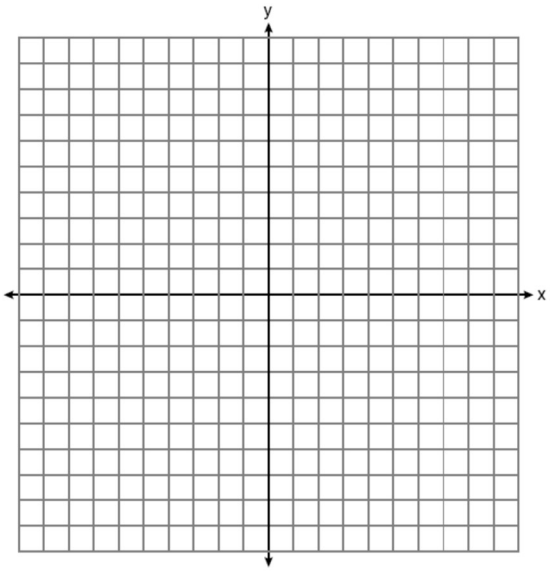
16. $(x-5)^2+(y+6)^2=4$



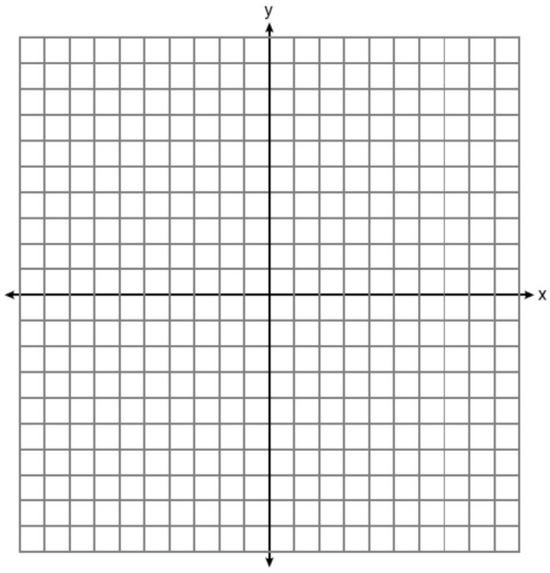
17. $(x+5)^2+y^2=25$



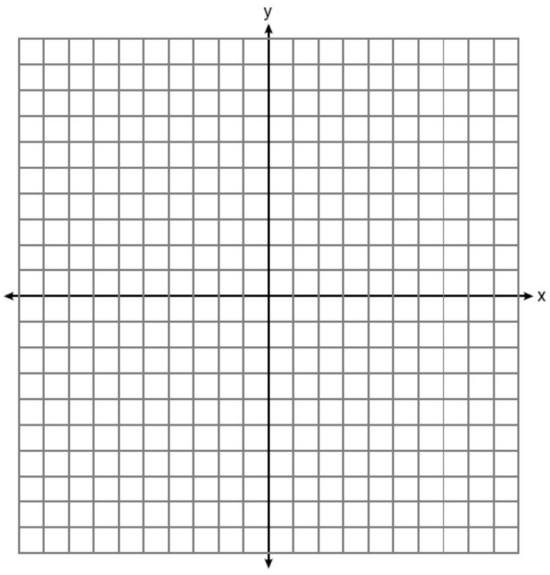
18. $(x-4)^2+(y+1)^2=9$



19. $(x+3)^2+(y-2)^2=16$



20. $x^2+(y-3)^2=49$



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