

Name: _____ Period: _____

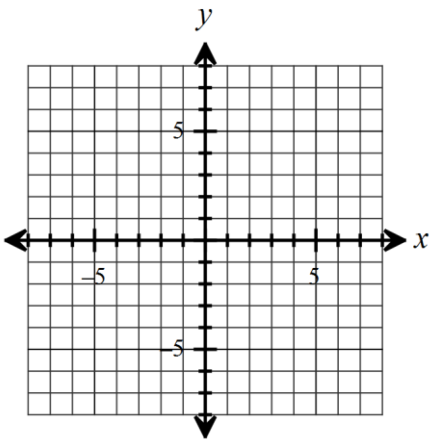
SM2 12.5 Graphing Circles

Identify the center and radius of each circle. Round the radius to the nearest tenth if necessary. Sketch the graph.

1. $x^2 + y^2 = 9$

Center: _____

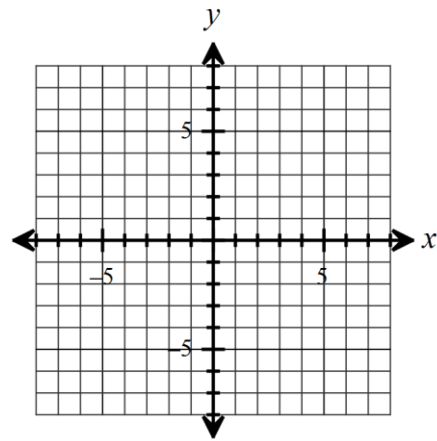
Radius: _____



2. $x^2 + y^2 = 49$

Center: _____

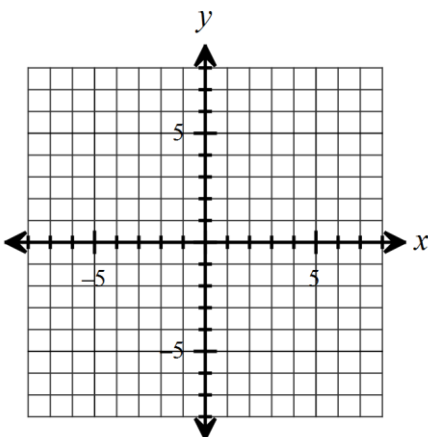
Radius: _____



3. $x^2 + y^2 = 25$

Center: _____

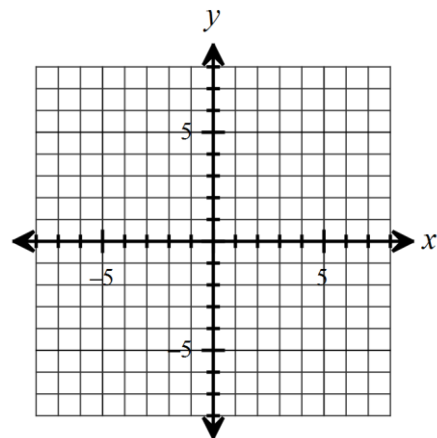
Radius: _____



4. $x^2 + y^2 = 12$

Center: _____

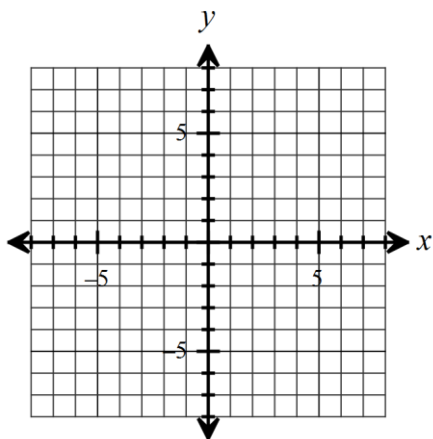
Radius: _____



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

Center: _____

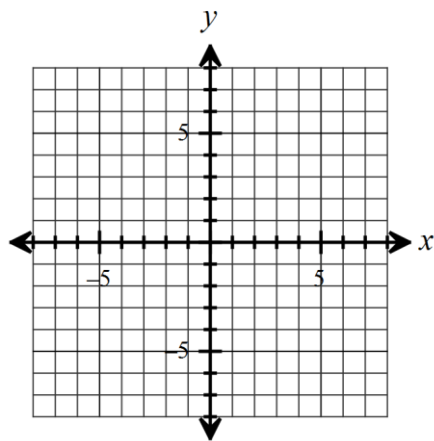
Radius: _____



6. $(x + 2)^2 + (y + 4)^2 = 9$

Center: _____

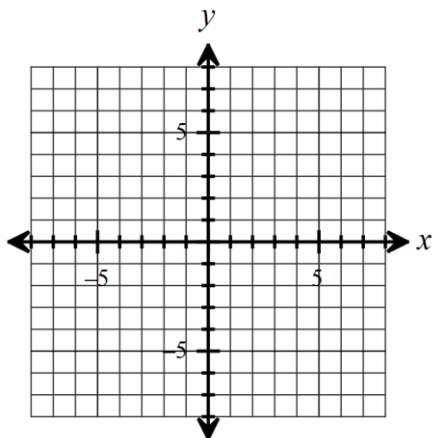
Radius: _____



7. $(x - 1)^2 + (y + 2)^2 = 15$

Center: _____

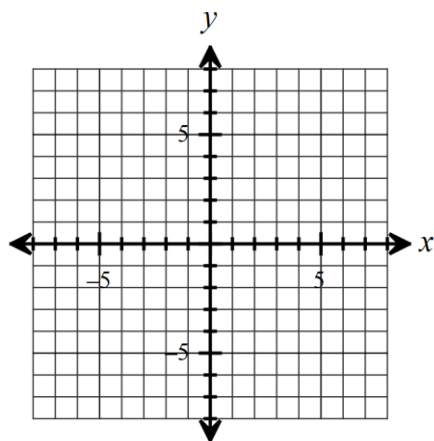
Radius: _____



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

Center: _____

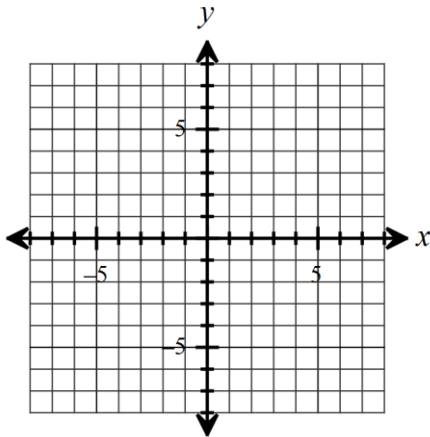
Radius: _____



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

Center: _____

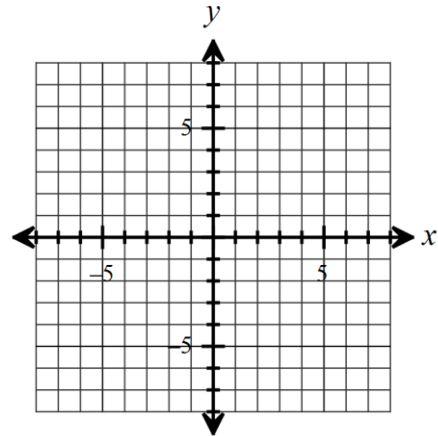
Radius: _____



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

Center: _____

Radius: _____



Use the given information provided to write the standard form equation of each circle.

11. Center: $(0, 0)$ Radius: 10

Equation: _____

12. Center: $(-12, 7)$ Radius: $\sqrt{19}$

Equation: _____

13. Center: $(7, 11)$ Radius: 8

Equation: _____

14. Center: $(2, -14)$ Radius: 4

Equation: _____

15. Center: $(-2, -7)$ Radius: $\sqrt{34}$

Equation: _____

16. Center: $(-5, 0)$ Radius: 10

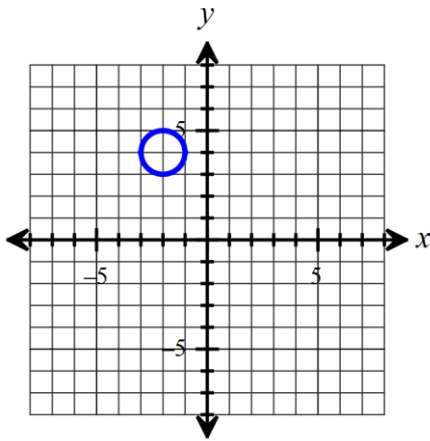
Equation: _____

Write the center and radius of each circle. Then write the equation for each circle.

17. Center: _____

Radius: _____

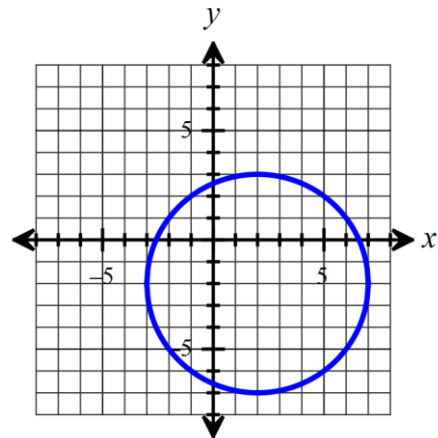
Equation: _____



18. Center: _____

Radius: _____

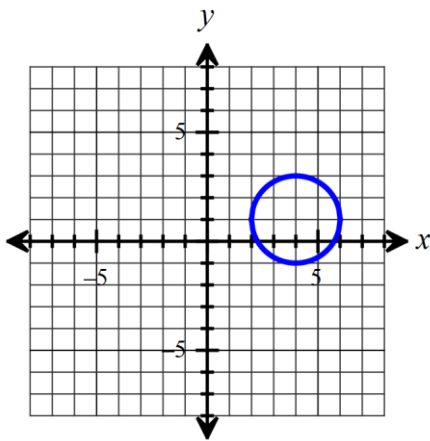
Equation: _____



19. Center: _____

Radius: _____

Equation: _____



20. Center: _____

Radius: _____

Equation: _____

