

Precalculus - Circles

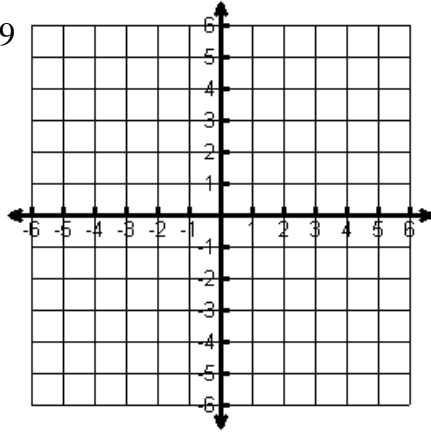
Name: _____ Per: _____ Date: _____

Graph the following circles. State the center and radius.

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

Center: _____

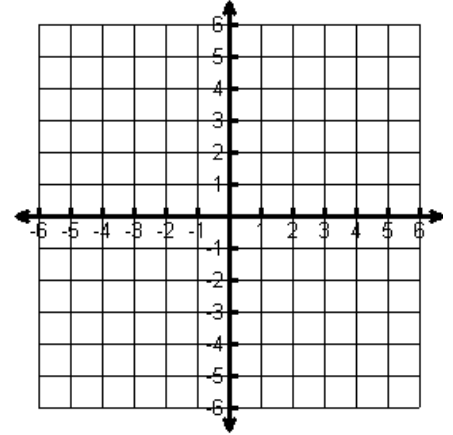
Radius: _____



2. $x^2 + y^2 = 20$

Center: _____

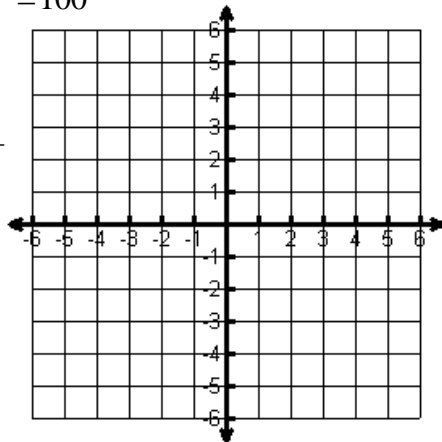
Radius: _____



3. $4x^2 + 4y^2 = 100$

Center: _____

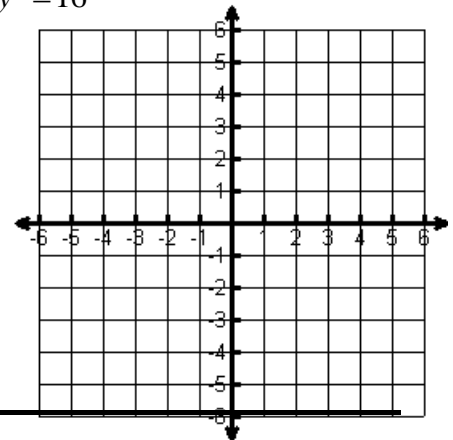
Radius: _____



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

Center: _____

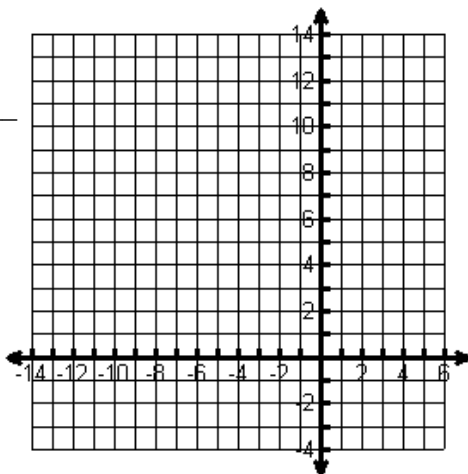
Radius: _____



5. $(x+4)^2 + (y-6)^2 = 64$

Center: _____

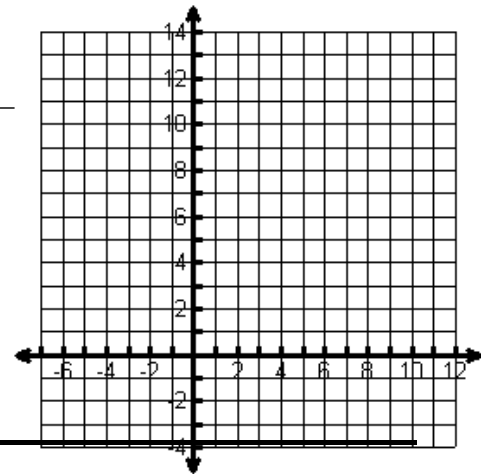
Radius: _____



6. $(x-3)^2 + (y-5)^2 = 50$

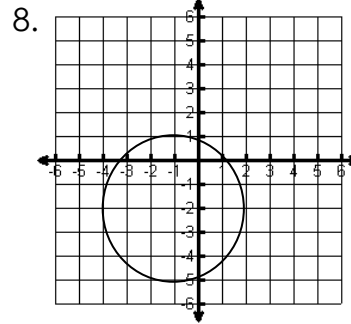
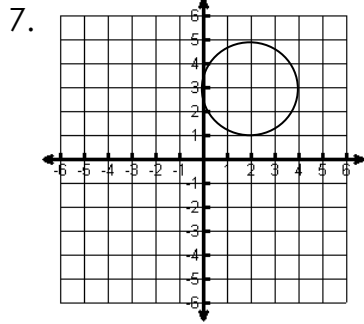
Center: _____

Radius: _____



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Write the equation of the circle in standard form. Then, convert to the general form.



Find the equation of the circle given the following information

9. Radius 2, center (-1, -4)

10. Center (2, 0) Point (5, 4)

11. Diam. endpts (-2, 4) (4, 2)

Write the standard equation for the circle. State the center and radius.

12. $x^2 + 2x + y^2 - 10y + 10 = 0$

13. $x^2 + y^2 - 4x + 6y + 9 = 0$

14. $x^2 + y^2 - 10x - 12y + 40 = 0$

15. $2x^2 + 2y^2 - 8x + 4y = -2$

16. $7x^2 + 7y^2 - 28x + 14 = 0$

17. $3x^2 + 3y^2 + 18x + 6y = 0$