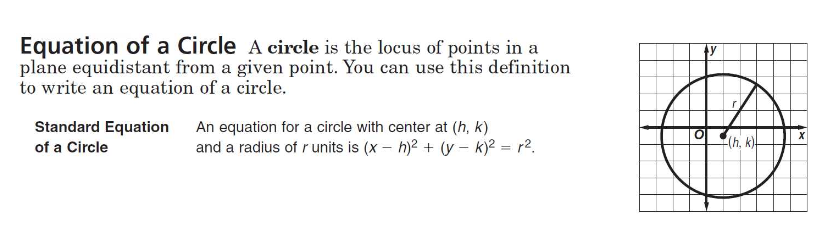
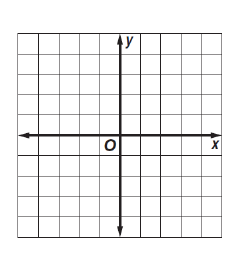
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10-8 Equations of Circles: HW

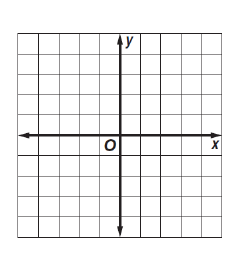
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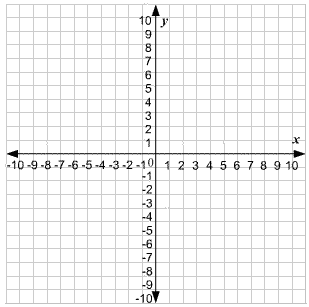
Write the equation for each circle, then graph each.



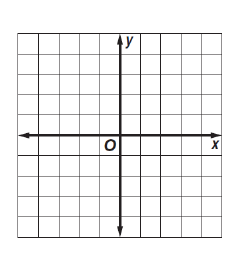
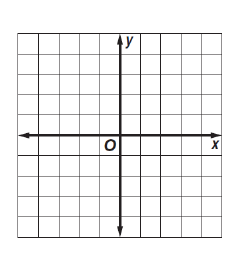
1. Center at (-1,0), r=4

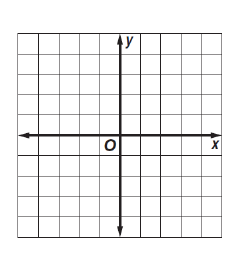
2. Center at (1,-1) , r = 3

3. Center at ( -6,-4), r = 2



Find the center and the radius and graph each equation.

4. 5. 6.



Center: Center: Center:

r = r = r =

7. Write the equation of a circle with the center at (-5,3) and a radius with the endpoint (2,3).

8. Write the equation of a circle with the center at (-2,-7) and a radius with the endpoint (0,7).

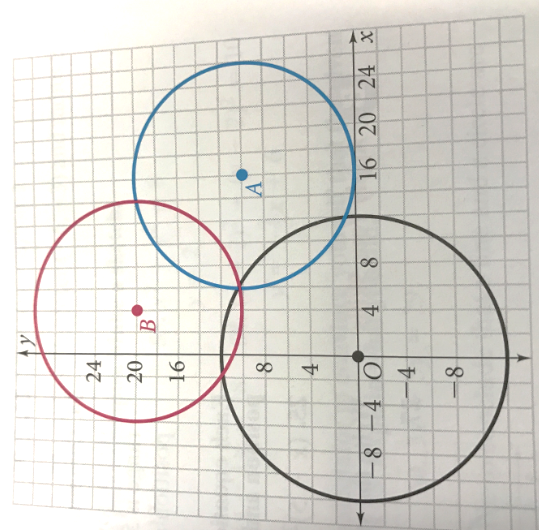
9. Write the equation of a circle with the center at (7,-2) and a radius with the endpoint (1,-6).

10. Write the equation of a circle whose diameter has endpoints (4,6) and (-2,6).

11. Write the equation of a circle whose diameter has endpoints (-7,1) and (-7,9).

12. Write the equation of the unit circle.

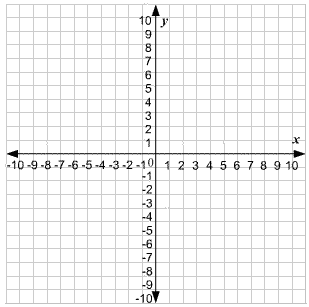
13. Communications: When you make a call on a cellular phone, a tower receives the call. The equation models the position and range of tower A. A new tower, tower B, is to be built on the location graphed. Write the equation that describes tower B’s position and range. A competing provider builds a different tower, tower O, is to be built on the location graphed. Write the equation that describes tower O’s position and range.



14. a. Graph the circle with the equation.

b. Graph and write an equation of another circle which is tangent to the one given.

c. Graph and write an equation of a third circle which is NOT tangent to the circle given, nor the circle from part a, and has a center at the origin.



15. The 2 circles and are graphed in the standard coordinate plane below. Which of the following circles, when graphed, will be tangent to both circles.

