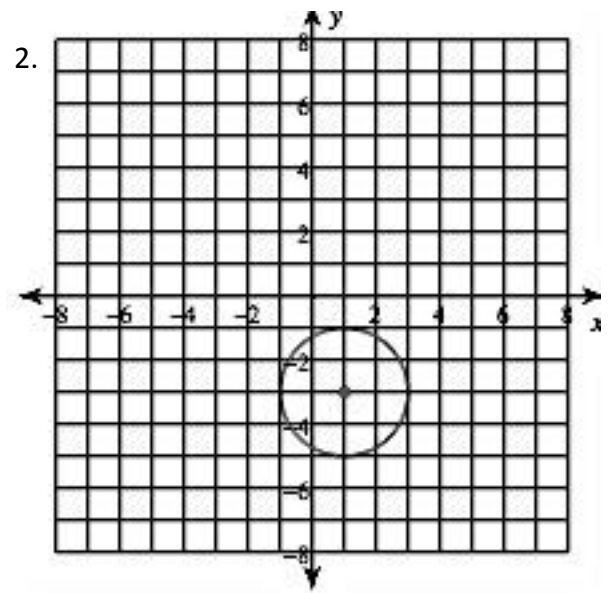
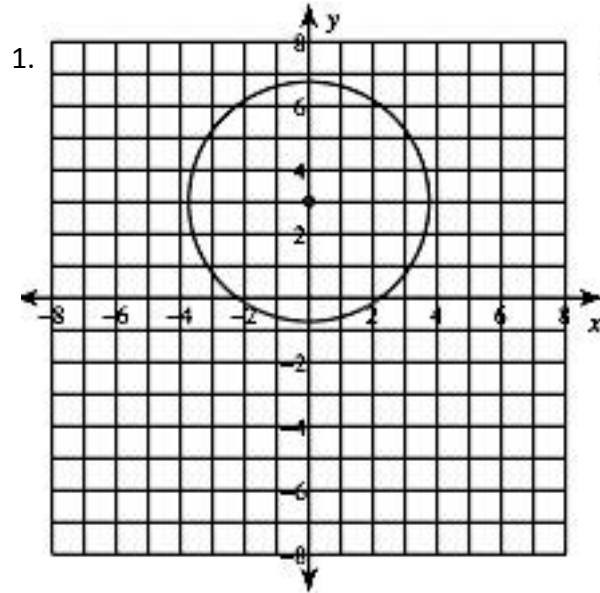


8.11 Circles & Applications on the Coordinate Plane

Geometry

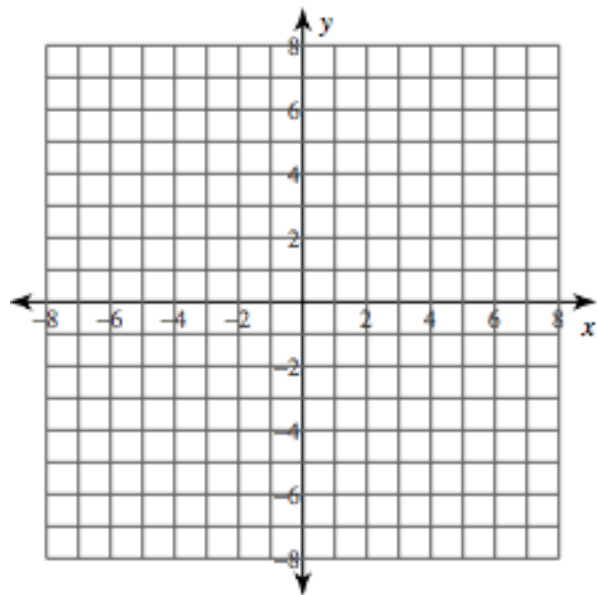
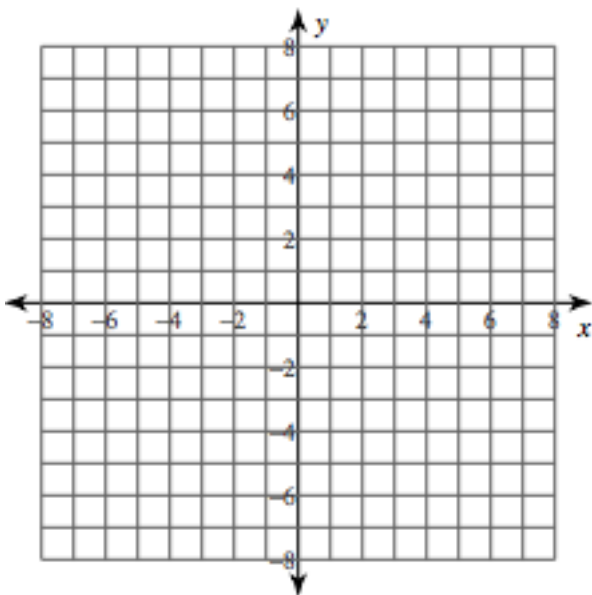
Directions: Write the standard and general equations. Then, find the area of each circle.



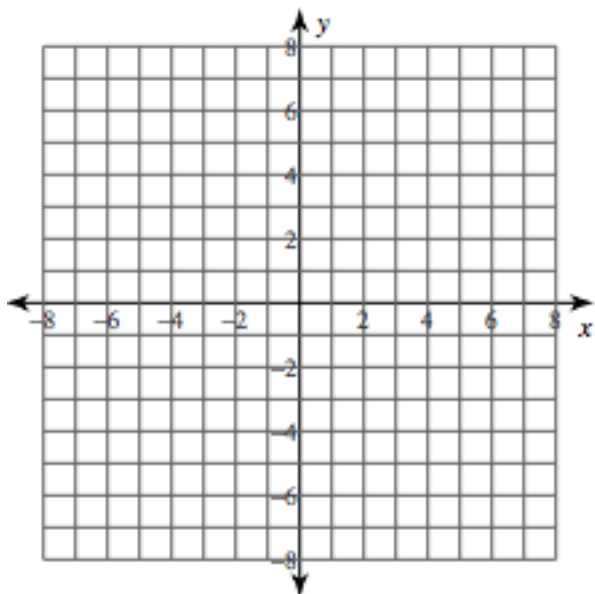
Directions: Write the equation in standard form. Then, sketch the circle on the graph provided.

3.  $y^2 + 4x - 20 - 2y = -x^2$

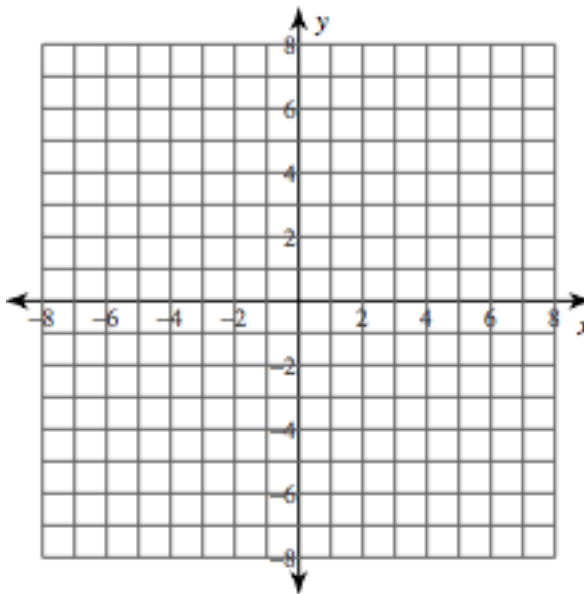
4. Center lies in the first quadrant Tangent to  $x = 8$ ,  $y = 3$ , and  $x = 2$



5. Ends of a diameter: (8, -1) and (4, -4)



6.  $-9 = -y^2 - x^2$



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Directions: Find each equation in standard form. Find the circumference of the **even** questions.

7. Given the center at (0, -4) with a diameter of 2.

8. Given the center is at (3, 2) and another point on the circle is (5, 6).

9.  $16 + x^2 + y^2 - 8x - 6y = 0$

10. Center: (0, 13) Area:  $25\pi$

11. A center at (2, -1) and tangent to the y-axis.

DO NOT DO 12. IT DOES NOT WORK.  
~~12. My circular pool has an area of  $16\pi$ . If I plotted it onto a graph, two points would be (0, 2) & (6, -4).~~