

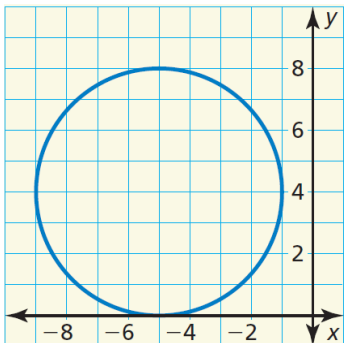
# Geometry

## 10.7 Circles in the Coordinate Plane

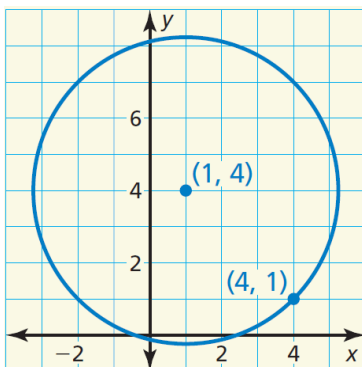
### Standard equation of a circle

$(h, k)$  is the \_\_\_\_\_ of the circle and  $r$  is the \_\_\_\_\_

Write the equation of the circle in the graph.



Write the standard equation of the circle.



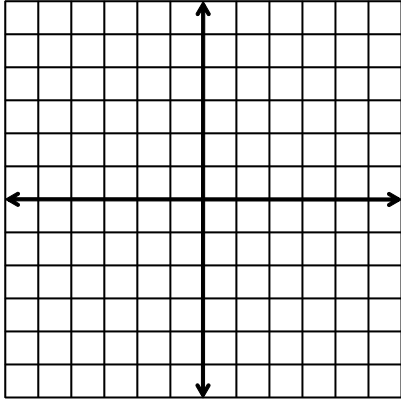
**Graph Circles**

Plot the \_\_\_\_\_

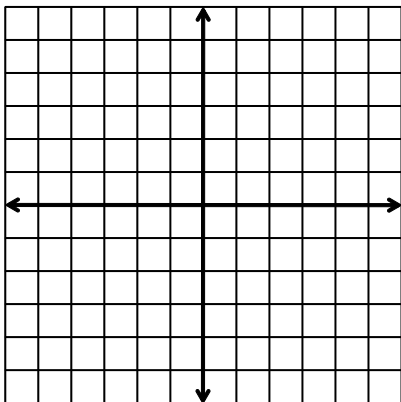
Move every \_\_\_\_\_ the distance \_\_\_\_\_ from the center.

Draw a \_\_\_\_\_.

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



The point  $(1, 4)$  is on a circle centered at the origin. Prove or disprove that the point  $(3, \sqrt{7})$  is on the circle.



Assignment: 559 #2, 4, 6, 8, 10, 12, 13, 14, 19, 20, 23, 24, 26, 28, 30, 34, 35, 36, 38, 41 = 20 total