Geometry

Unit 2 Lesson 4

Name:

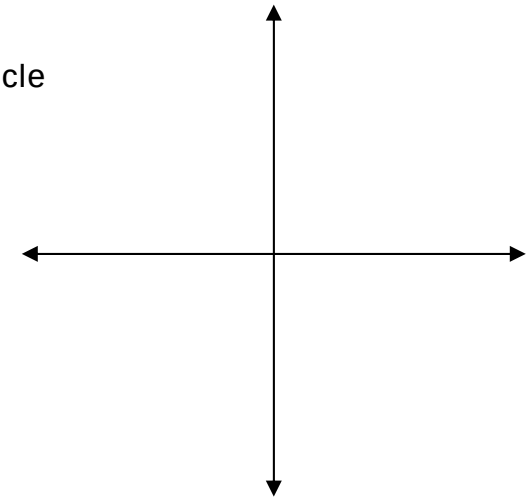
Date: Period: 1 2 3 4 5 6

Standards: 22.0 Holt: 11.7 Equations of Circles p.799

Objective:

Warm Up

Circles and the Distance Formula



1: Find the Distance between given points on the circle

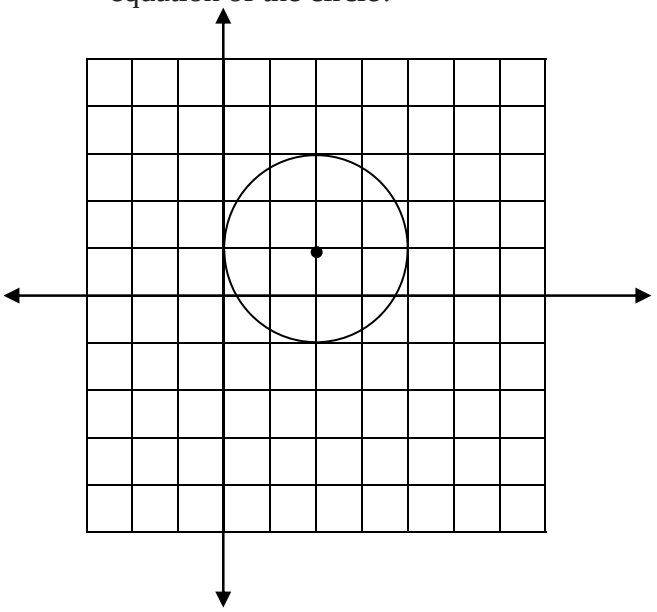
2: How is the radius related to the distance?

3: The equation of a circle is:

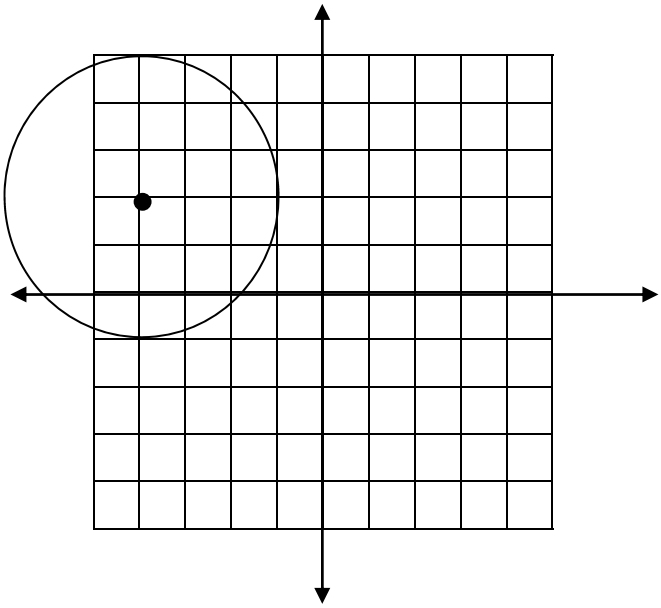
Break down the equation of a circle:

Graph → Equation

1 Given the graph below. What is the equation of the circle?



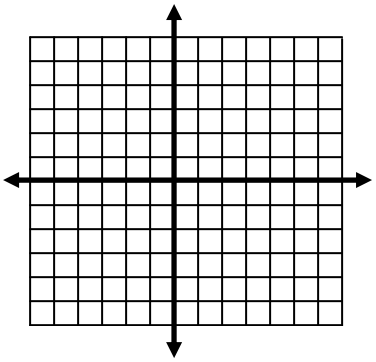
2 Given the graph below. What is the equation of the circle?



Graph ← Equation

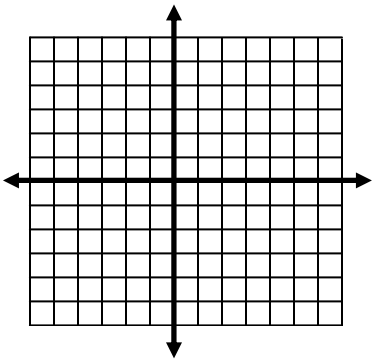
3 Graph the circle given the equation below:

$$(x - 3)^2 + (y + 2)^2 = 9$$



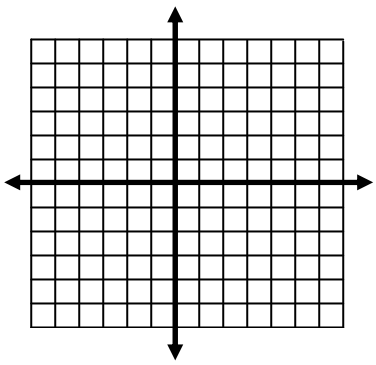
4 Graph the circle given the equation below:

$$(x + 2)^2 + (y - 1)^2 = 1$$



5 Graph the circle given the equation below:

$$(x - 4)^2 + (y - 3)^2 = 1$$



6 Graph the circle given the equation below:

$$(x + 3)^2 + (y + 1)^2 = 9$$