Name: _____



Lesson Guide

This lesson guide accompanies the following video lesson:

standard form equation
$$(x - h)^2 + (y - k)^2 = \Gamma^2$$

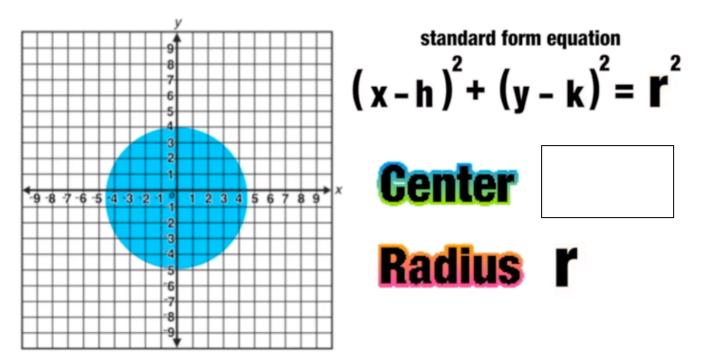
The Standard Equation of a Circle

Quick Review of a Circle

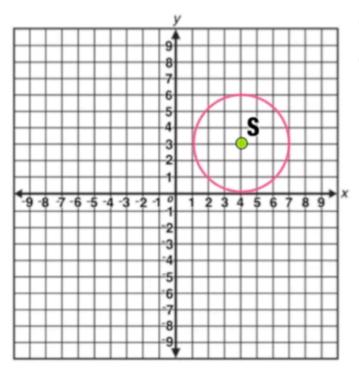
	Por r	
Point P is the	of the circle.	
Length r is the	of the circle.	

The ______ of a circle is equal to twice the measure of its radius.

Key Information:



> Example 01

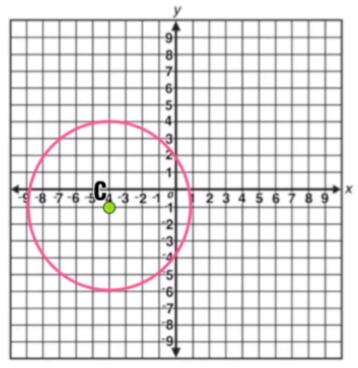


Write the standard form equation for circle S with a center at (4,3).

$$(x-h)^{2} + (y-k)^{2} = r^{2}$$

Standard Form Equation of Circle S: _____

> Example 02

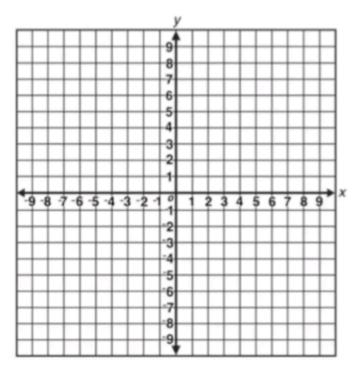


Write the standard form equation for circle C with a center at (-4,-1).

$$(x-h)^{2} + (y-k)^{2} = r^{2}$$

Standard Form Equation of Circle C: _____

> Example 03



Write the standard form equation for circle J with a center at the origin and a diameter of 18.

Standard Form Equation of Circle J: _____

> Example 04

Identify the center and radius of Circle P with a standard graphing equation:

$$(x-7)^2 + y^2 = 196$$

The center of circle P is ______ and the radius is ______.

Answer Key

Example #1: $(x-4)^2 + (y-3)^2 = 9$

Example #2: $(x + 4)^2 + (y + 1)^2 = 25$

Example #3: $x^2 + y^2 = 81$

Example #4: Center: (7,0), Radius: 14