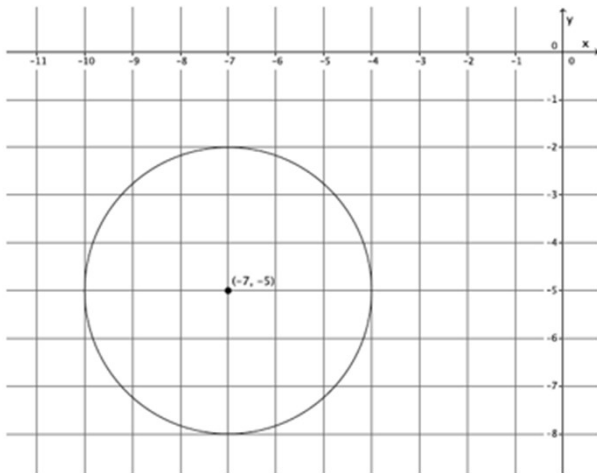
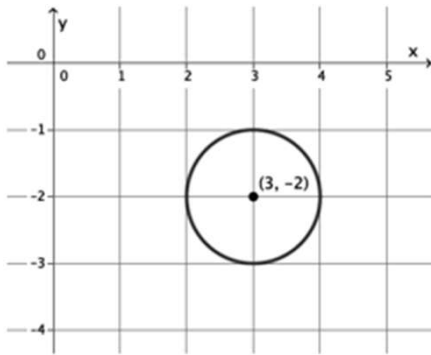


# Equation of Circle

1. Write the equation of the circle shown below.



2. Write the equation of the circle shown below.



3. Consider the circles with the following equations:

$$x^2 + y^2 = 2 \text{ and}$$

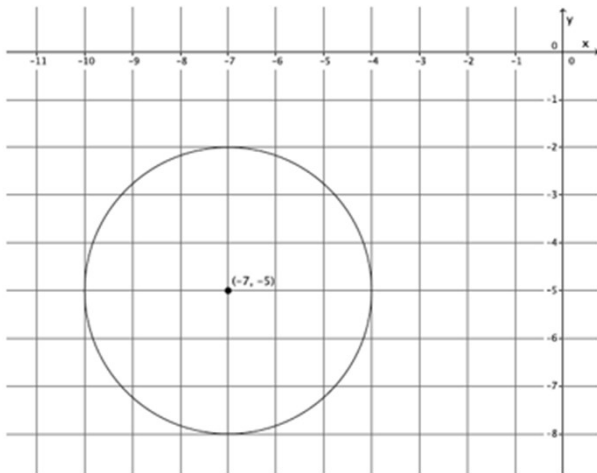
$$(x - 3)^2 + (y - 3)^2 = 32.$$

a) What are the radii of the two circles?

b) What is the distance between their centers?

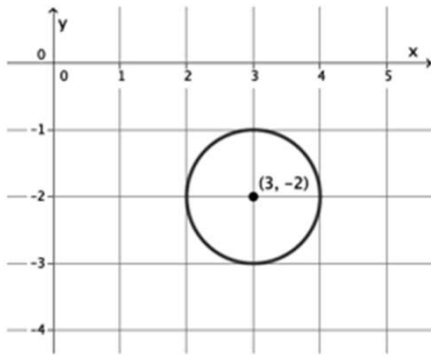
# Equation of Circle

1. Write the equation of the circle shown below.



$$(x + 7)^2 + (y + 5)^2 = 9$$

2. Write the equation of the circle shown below.



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

3. Consider the circles with the following equations:

$$x^2 + y^2 = 2 \text{ and}$$

$$(x - 3)^2 + (y - 3)^2 = 32.$$

a) What are the radii of the two circles?

*The radii are  $\sqrt{2}$  and  $\sqrt{32}$ .*

b) What is the distance between their centers?

$$\sqrt{32} - \sqrt{2} = 4\sqrt{2} - \sqrt{2} = 3\sqrt{2}$$

Go to [onlinemathlearning.com](http://onlinemathlearning.com) for more free math resources