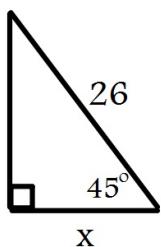


Spiral Review:

1. Solve for x.



2. FOIL

$$a.) (x-5)(x+3)$$

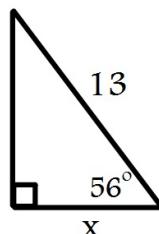
$$b.) (x+7)^2$$

3. Factor

$$a.) x^2 - 12x + 32$$

$$b.) x^2 + 2x = 63$$

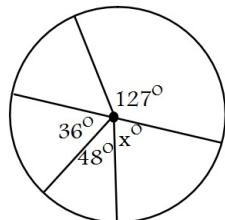
4. Solve for x.



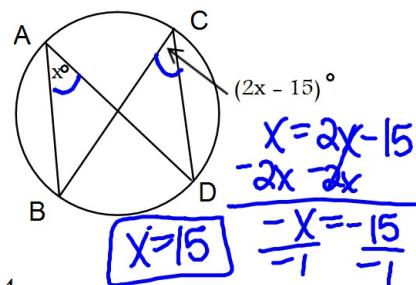
10.1 – 10.6 Review

Find the value of x

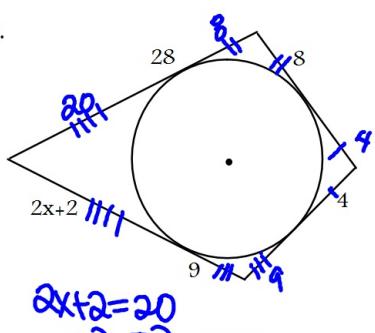
1.



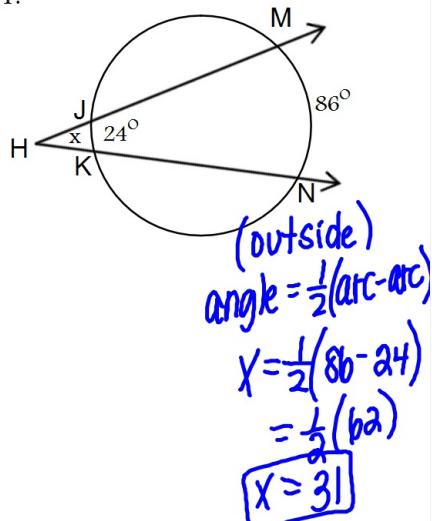
2.



3.



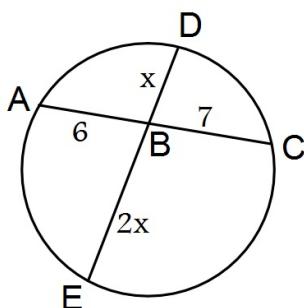
4.



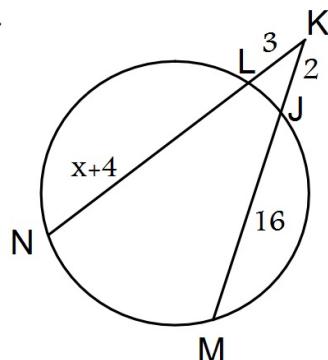
10.7 Review

Find the value of x.

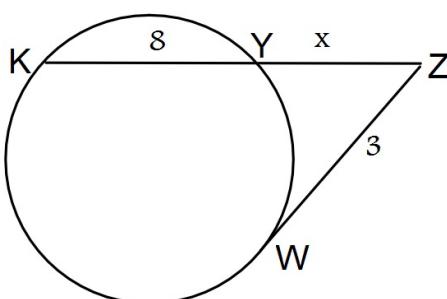
1.



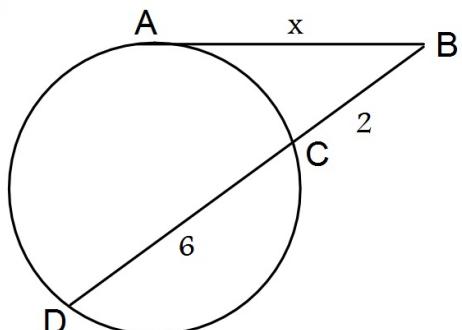
2.



3.



4.



p. 757 10.8 Equations of Circles

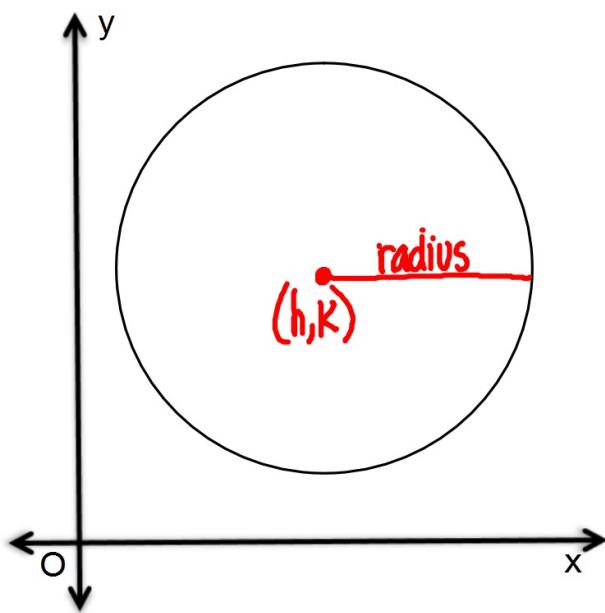
Standard form of the equation of a circle:

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

with center at (h,k) and radius r

① To find the radius,
you must $\sqrt{r^2}$.

② "h" and "k" will look
like the opposite in ().



Example 1: Use the information provided to write the equation of a circle.

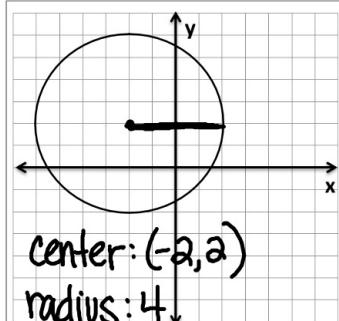
1. Center: $(1, -8)$

Radius: 7

$$(x-1)^2 + (y+8)^2 = 7^2$$

$$(x-1)^2 + (y+8)^2 = 49$$

3.



center: $(-2, 2)$
radius: 4

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

$$(x+2)^2 + (y-2)^2 = 16$$

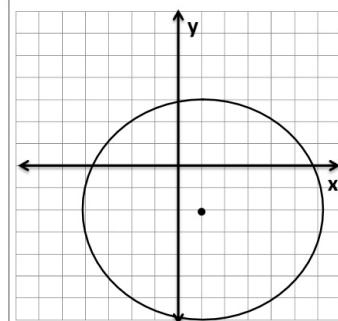
2. Center: origin $(0,0)$

Radius: $\sqrt{10}$

$$(x-0)^2 + (y-0)^2 = (\sqrt{10})^2$$

$$x^2 + y^2 = 10$$

4.



center: $(1, -2)$
radius: 5

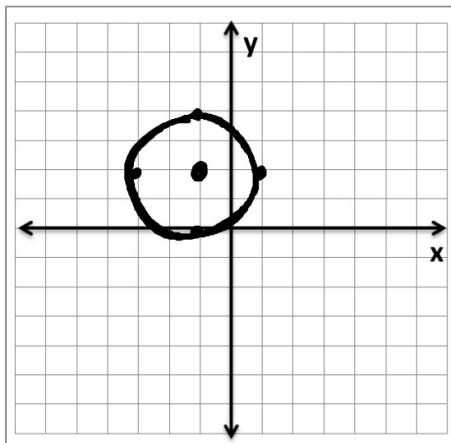
$$(x-1)^2 + (y+2)^2 = 5^2$$

$$(x-1)^2 + (y+2)^2 = 25$$

Example 2: Identify the center of the circle, radius, and diameter. Sketch the graph.

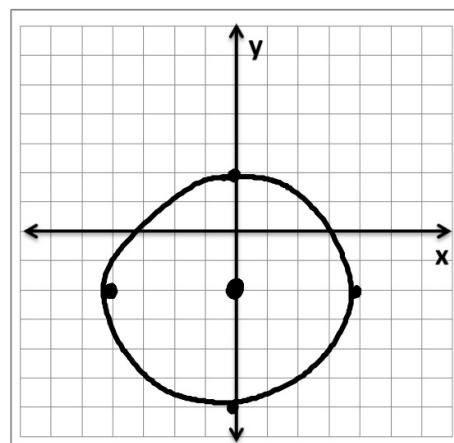
1. $(x+1)^2 + (y-2)^2 = 4$

center: $(-1, 2)$ radius: $\sqrt{4} = 2$
diameter: $2(2) = 4$



2. $x^2 + (y+2)^2 = 16$

center: $(0, -2)$ radius: $\sqrt{16} = 4$
diameter: $2(4) = 8$

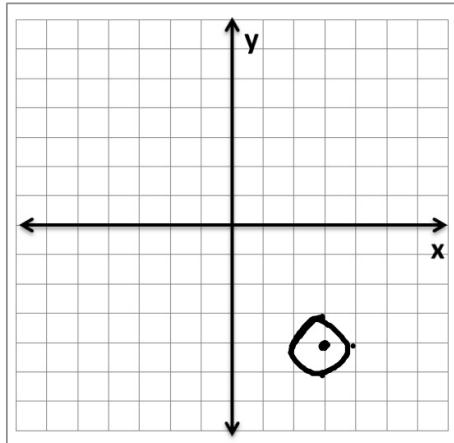


$$3. (x-3)^2 + (x+4) = 1$$

center: $(3, -4)$

radius: 1

diameter: 2

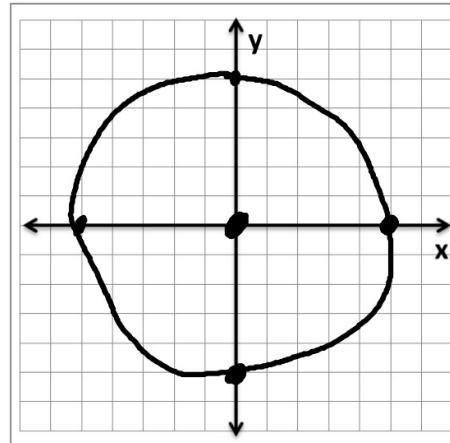


$$4. x^2 + y^2 = 25$$

center: $(0, 0)$

radius: 5

diameter: 10



Turn-in:

Quick Check 10.8

HW:

Worksheet