

1. Graph the equation

$$y = \pm\sqrt{25 - x^2}$$

by first completing the table at right.

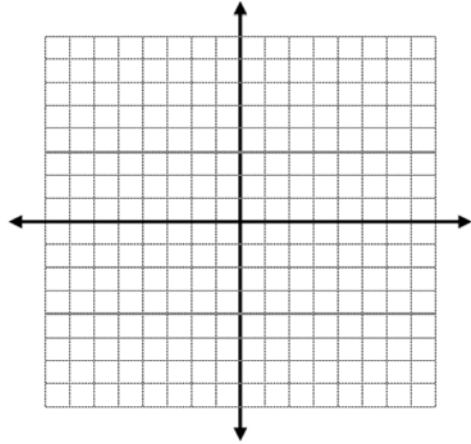
Also note this equation can be changed as followed:

$$y = \pm\sqrt{25 - x^2}$$

$$y^2 = 25 - x^2$$

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

x	y
0	
3	
4	
5	
-3	
-4	
-5	

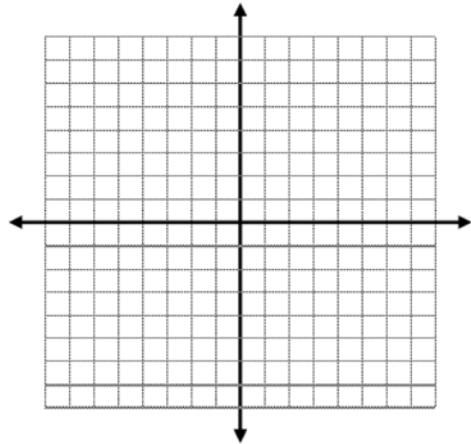


2. Graph the equation

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

by first completing the table at right.

x	y
6	
-2	
2	
4	
0	



3. Notice that both graphs above are circles. Give the coordinates of the center and the radius for each circle.

Circle #1: C(____, ____); r = ____

Circle #2: C(____, ____); r = ____

In general, if center is at point (h, k),
Then the equation of the circle is

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

