

NAME: _____ SCORE: _____



Objective:

1. Graph and solve problems involving circles
2. Solve problems involving geometric figures

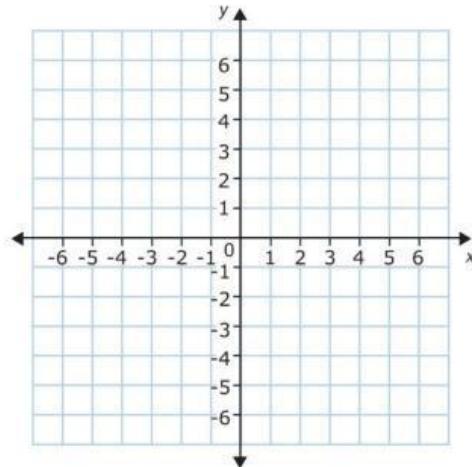


TASKS



Illustrate the following at the cartesian plane on the right.

1. circle centered at the origin with radius = 5 units
2. circle centered at the origin with radius = 3 units
3. circle centered at $(3, -3)$ with radius = 2 units
4. circle centered at $(-4, -3)$ with radius = 1 unit
5. circle centered at $(-4.5, -4)$ with radius = 2 units



Complete the table below.

EQUATION OF THE CIRCLE	CENTER	RADIUS
1. $x^2 + y^2 = 49$		
2. $(x - 2)^2 + (y - 3)^2 = 16$		
3. $(x + 1)^2 + (y + 1)^2 = 25$		
4. $(x + 4)^2 + (y - 6)^2 = 49$		
5. $(x - 5)^2 + (y + 9)^2 = 8.1$		



Study the figures at the right and accomplish the tasks.

TASK	FIGURE
Find the distance along the legs of the triangle. Show that it is a right triangle.	
Determine the center, radius, and the equation of the circle.	
Show that the lengths of the figure at the right are congruent.	