



NAME: \_\_\_\_\_ SCORE: \_\_\_\_\_



Objective:

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

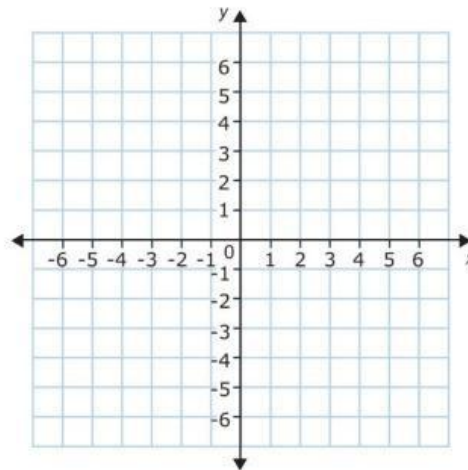


TASKS



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.	