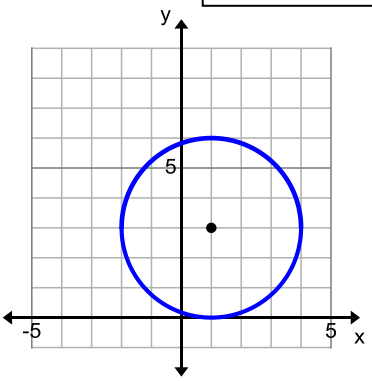
Name: _____ Period: _____

Score: _____/_____ _____%

HW 5-6 HONORS: Distance with Circles

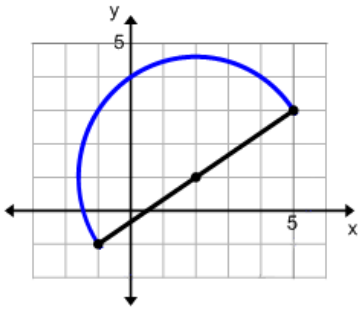
1. Calculate the circumference and area of the circle.



Circumference:

Area:

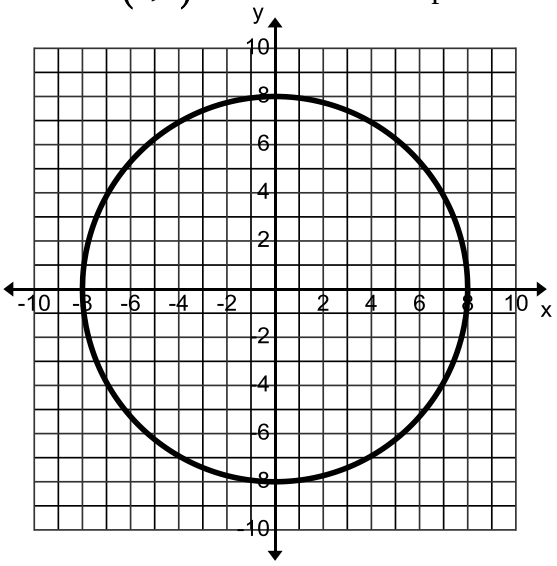
2. Calculate the perimeter and area of the figure.



Perimeter:

Area:

3. Given this circle with the center at the origin and a point on the circle at $(8,0)$. Determine if the points are on the circle. Justify your answer by showing your work.



a. Give the length of the radius.

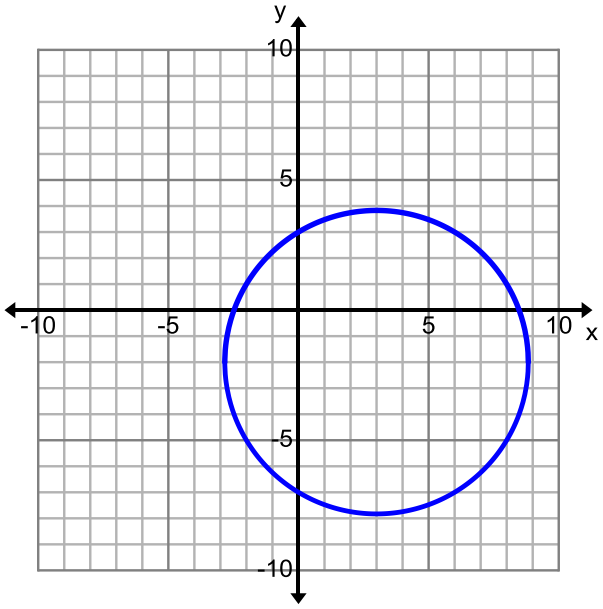
b. (7, 4)

c. (-6, -5)

d. Calculate the circumference of the circle.

e. Calculate the area of the circle.

4. Given this circle with the center at $(3,-2)$ and a point on the circle at $(6,3)$. Determine if the points are on the circle. Justify your answer by showing your work.



a. Give the length of the radius.

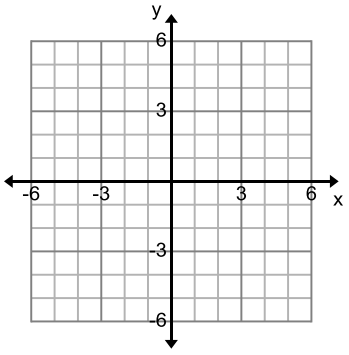
b. (-2, -5)

c. (-1, 2)

d. Calculate the circumference of the circle.

e. Calculate the area of the circle.

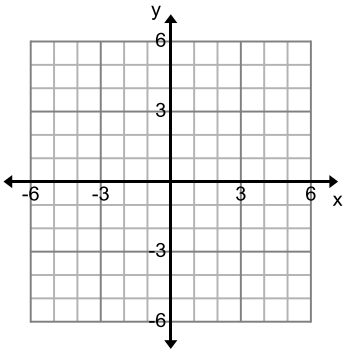
5. Given a circle with the center at $(0,1)$ and a point on the circle at $(3,5)$, determine if the points are on the circle. Justify your answer by showing your work.



a. (-3, -3)

b. $\left(\sqrt{3},\ \sqrt{22}\right)$

8. Given a circle with radius 3 and centered at (2, 4). Determine if the following points are on the circle. Justify your answer by showing your work.



a. (1, 1)

b. (5, 4)