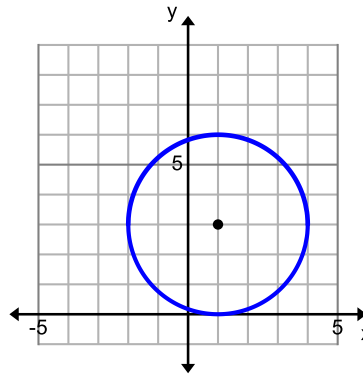


HW 6-8: Distance with Circles

1. Calculate the circumference and area of the circle.

Circumference:

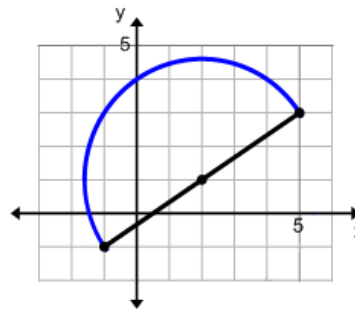
Area:



2. Calculate the perimeter and area of the figure.

Perimeter:

Area:

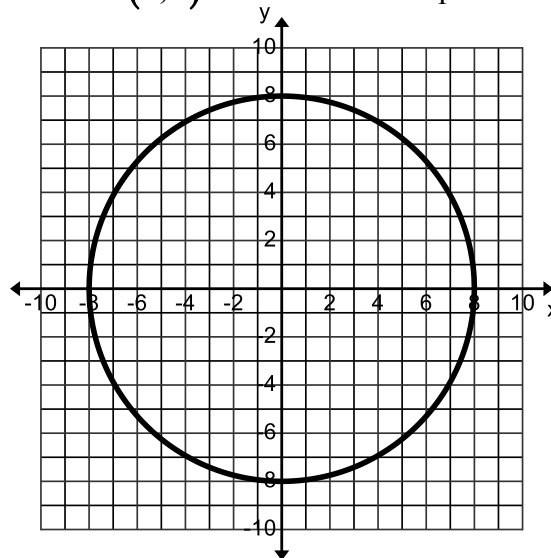


3. Given this circle with the center at the origin and a point on the circle at $(8, 0)$. Determine if the points are on the circle. Justify your answer by showing your work.

a. Give the length of the radius.

b. $(7, 4)$

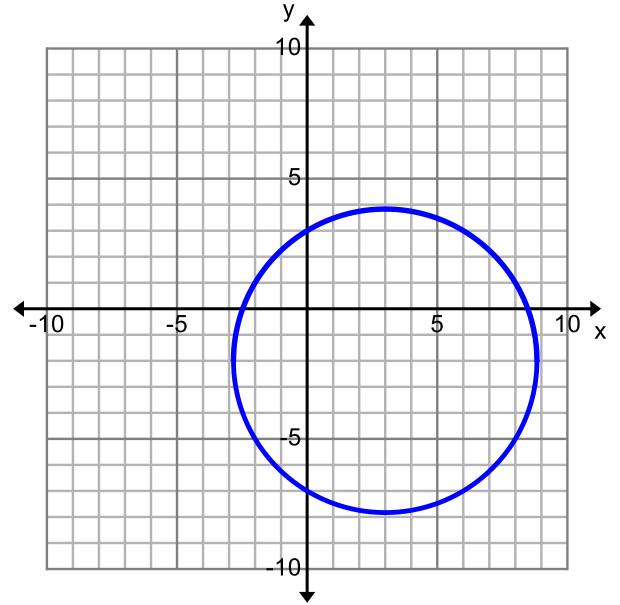
c. $(-6, -5)$



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. $(-1, 2)$

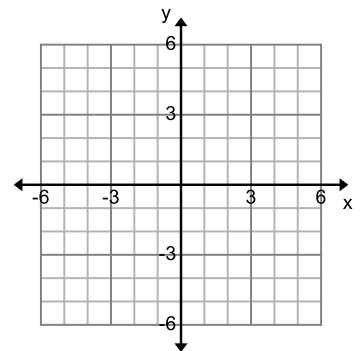
d. Calculate the circumference of the circle.

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. $(\sqrt{3}, \sqrt{22})$



6. 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. $(5, 4)$

