

Circles Review

1. Given a circle with a radius of 7 determine the diameter, area, and circumference.

2. If the circumference of a circle is 16π , what is the length of the radius and area of the circle?

3. Determine which point(s) lie(s) on the circle: $x^2 + y^2 = 101$

a. $(-1, -10)$

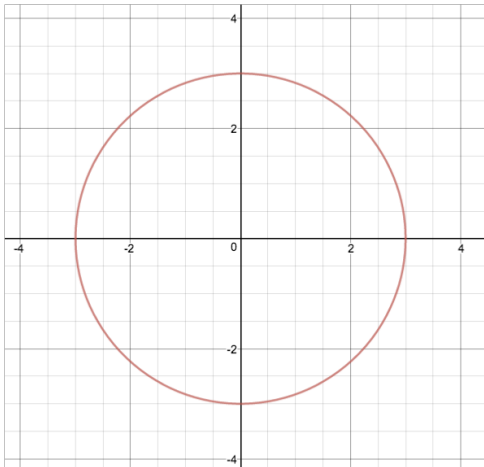
b. $(8, -6)$

c. $(10, 1)$

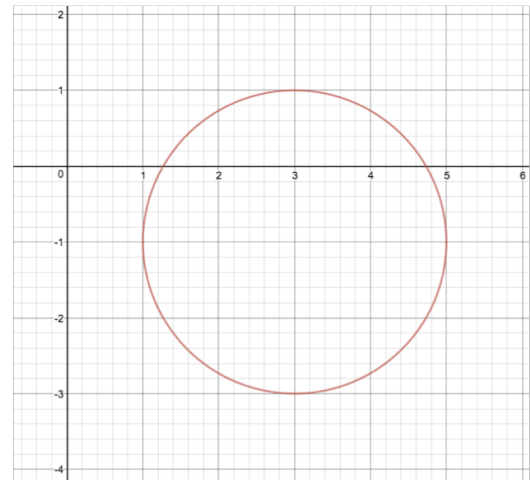
d. $(10, 0)$

4. Determine two points that lie on the circle:

a.



b.



5. Find two points that lie on the circle: $(x - 3)^2 + y^2 = 64$.

6. Which of the following is an equation for a line that is tangent to the circle $x^2 + y^2 = 26$ at the point $(4, 9)$? Sketch a picture to support your answer.

a. $y = -\frac{4}{9}x + \frac{16}{9}$

b. $y = -\frac{9}{4}x + \frac{9}{97}$

c. $y = \frac{4}{9}x - \frac{9}{16}$

d. $y = -\frac{4}{9}x + \frac{97}{9}$

