

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Graph the equation by plotting points.

1)  $y = x - 6$  1) \_\_\_\_\_

2)  $y = |x| + 1$  2) \_\_\_\_\_

3)  $y = x^2 + 4$  3) \_\_\_\_\_

4)  $y = x^3 - 2$  4) \_\_\_\_\_

5)  $y = \sqrt{x + 6}$  5) \_\_\_\_\_

Find the x- and y-intercepts of the graph of the equation.

6)  $3x - 6y = 12$  6) \_\_\_\_\_

7)  $x = y^2 - 3y - 4$  7) \_\_\_\_\_

8)  $y = \sqrt{9 - x^2}$  8) \_\_\_\_\_

Specify the center and radius of the circle.

9)  $x^2 + y^2 - 12x + 18y + 36 = 0$  9) \_\_\_\_\_

10)  $2x^2 + 2y^2 + 4x + 16y + 2 = 0$  10) \_\_\_\_\_

Find the standard form of the equation of a circle that satisfies the given conditions.

11) Center at (8, 10); radius  $\sqrt{6}$  11) \_\_\_\_\_

12) Center (4, 6); passing through the point (7, 10) 12) \_\_\_\_\_

Graph the circle.

13)  $(x - 3)^2 + (y - 4)^2 = 36$  13) \_\_\_\_\_

14)  $(x - 2)^2 + y^2 = 16$  14) \_\_\_\_\_