In each of the following problems you are given the coordinates of point P and point Q. Find PQ. Express any irrational answers rounded to the nearest hundredth.

1. P(-2, 1) Q(6, 7) PQ:____

- 2. P(-4, -2) Q(-4, -8) PQ: ____
- 3. P(-1.7, 2.6) Q(-0.2, -1) PQ: _____ 4. P(4, 7) Q(-3, 11) PQ: _____

In each of the following problems you are given the coordinates of point P and point Q. Find the coordinates of point M, the midpoint of segment PQ.

5. P(6, 8) Q(-4, 3)

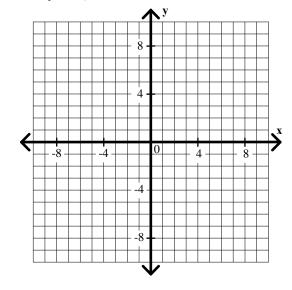
6. P(-6.3, 5.2) Q(-2.5, 5.2)

M: (____,___)

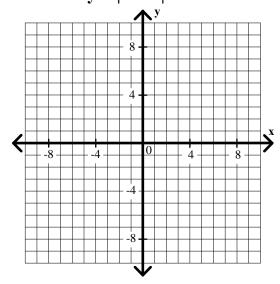
M: (____,___)

Sketch a graph of each of the following equations.

7. $y = \sqrt{x}$



8. $y = |x^2 - 9|$

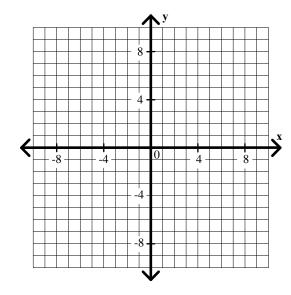


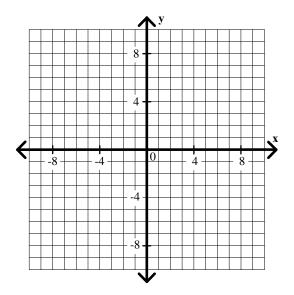
Precalculus Worksheet #1 Chapter 2 page 2

Sketch a graph of each of the following equations.

9.
$$4x - 3y = 12$$

10.
$$x^2 + y^2 + 6x - 4y + 4 = 0$$





Solve each of the following problems.

11. Find the value(s) of y so that the distance between (3, y) and (-6, 6) is 15.

12. Write the general form equation of the circle with a radius of 4 and center at (3, -4).