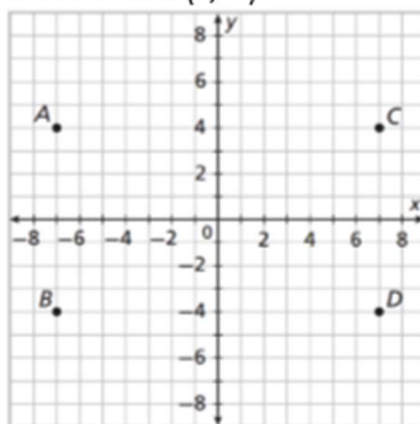Name: _____   Date: _____
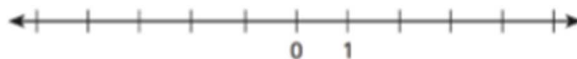
Homework _01: Coordinate Grid

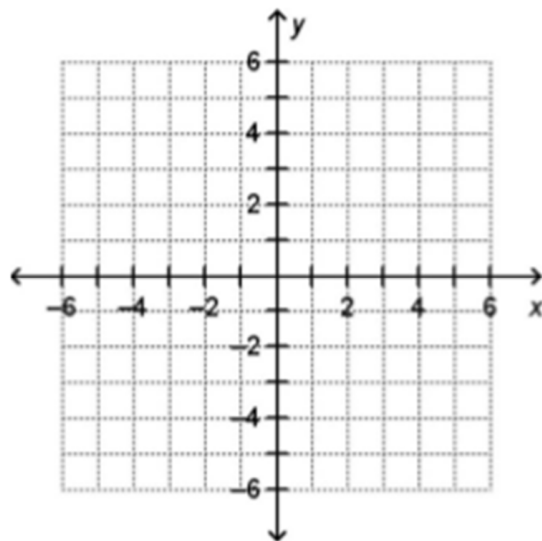|	
1. Both coordinates of a point in the coordinate plane are negative. In which quadrant is this point located?	2. Which of the points on the coordinate plane has coordinates (7, -4)?
3. What is the opposite of the opposite of -5?	4. Graph the integers -1, 4, 2, and their opposites on the number line.

5. The coordinate plane represents a map of Leonardo and Christie's town. Graph and label each location on the coordinate plane.
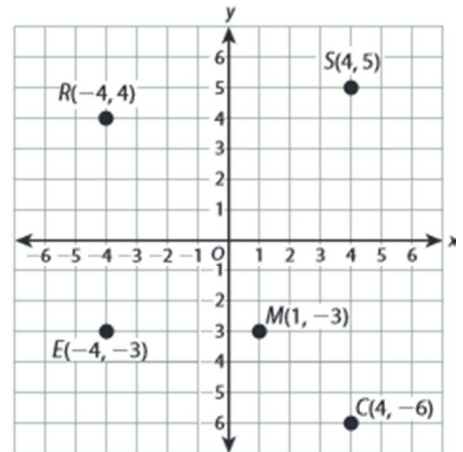
Home: (-4, 2)
Coffee shop: (3, 2)
School: (4, -5)
Arcade: (-2, 0)

Solve.

Use the situation below and the coordinate plane to solve problems 5–8.

A music store is at point *M* on the coordinate plane. An electronics store is at point *E*, and a restaurant is located at point *R*. Each unit represents 1 mile.

5 What are two ways you can find the distance between the electronics store and the music store?

_____

_____

6 What is the distance between the electronics store and the music store? Count units to find the answer.

_____

7 Use absolute value to find the distance between the music store and the electronics store.

Show your work.

Solution: _____

8 Helen drove from the restaurant to the toy store, which is not shown on the map. She made a right turn at the toy store and drove to the music store. She drove a total distance of 12 miles. What are the coordinates of the toy store?

_____

9 Point *A* is located at $(-3, y)$, and point *B* is located at $(-6, y)$. How can you find the distance between these points using absolute values?

_____

_____