Rectangular Coordinate System

Rectangular Coordinate System or Cartesian Plane: constructed by drawing two perpendicular lines wherein the point of intersection is called the *origin*

Coordinate axes: the two perpendicular lines

X-Axis: the horizontal line

Y-Axis: the vertical line

Quadrants: the four regions that divide the plane

Coordinates: the ordered pair of real numbers that corresponds to each point in the plane

X-Coordinate or Abscissa: the first number of the ordered pair

Y-Coordinate or Ordinate: the second number of the ordered pair

Practice Exercises

A. Name the point that has the coordinates.

1. (0, 4)   3. (0, -6)   5. (1, 6)
2. (-2, -1)   4. (-5, -4)

B. Write the coordinates of each point.

1. E   3. G   5. H
2. B   4. D

C. Determine the quadrant or axis where each point is located.

1. A   3. C   5. E
2. B   4. D

Problem Set

A. Name the point that has the coordinates.

1. (7, -8)   3. (0, 8)   5. (2, 9)
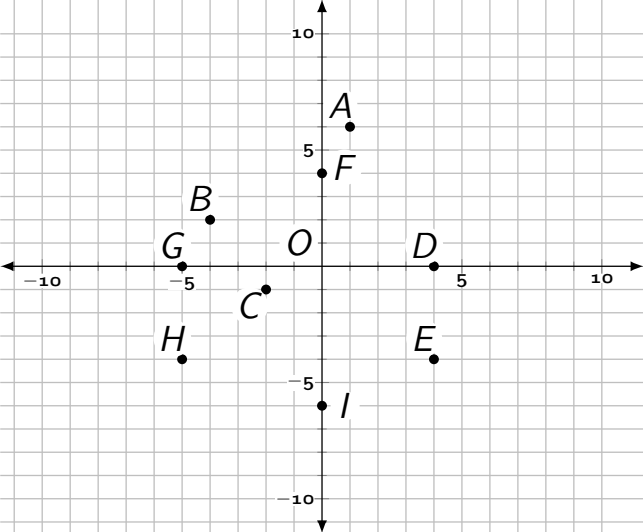2. (-7, 3)   4. (-6, -9)

B. Write the coordinates of each point.
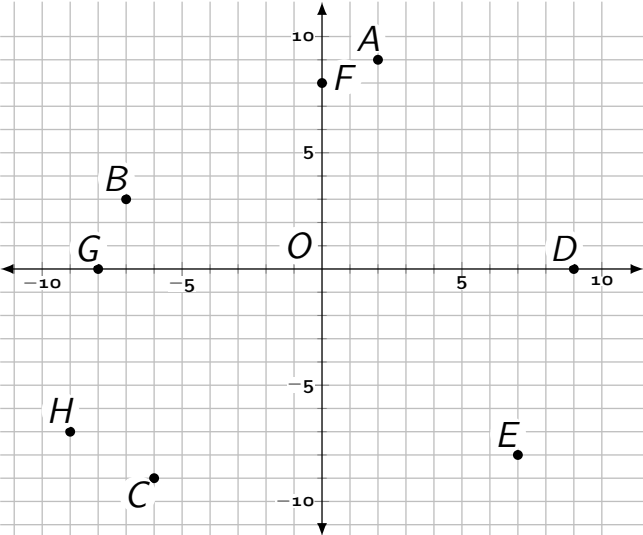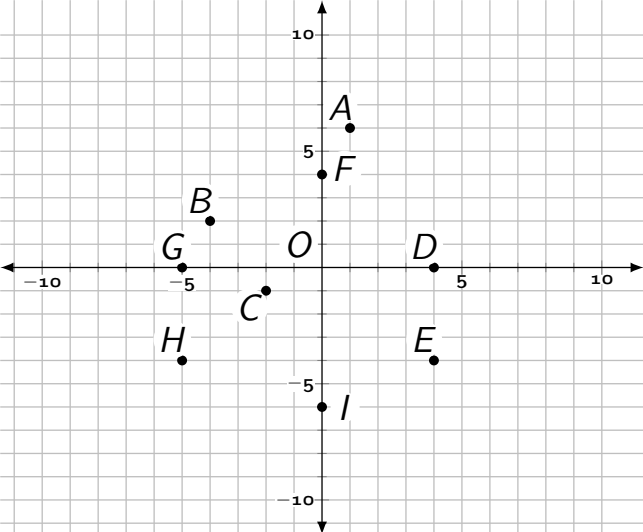
1. C   3. F   5. H
2. A   4. D

C. Determine the quadrant or axis where each point is located.

1. H   3. F   5. D
2. G   4. E