The Coordinate System is Our Friend—Pre-Test

1. Define the following terms in your own words:

   a. Cartesian coordinate system A plane created by intersecting two number lines perpendicularly at the origin and used to plot the location of an ordered pair.
   b. Ordered pair Two real numbers that give the distance of a point from the origin and represented by the notation (x, y).
   c. Solution to an equation An ordered pair, (x, y) that results in a true statement when replacing the variables x and y in an equation.

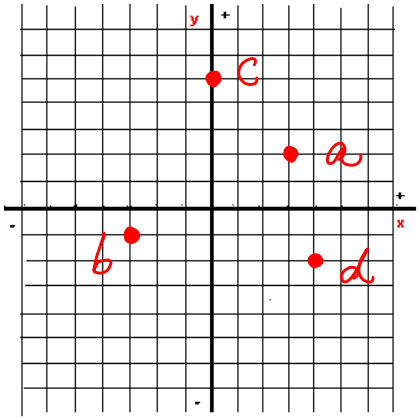
2. Plot the following ordered pairs on the Cartesian coordinate system and name the quadrant or axes where each point is located.

   a. (3, 2) Quadrant I

   b. (-3, -1) Quadrant III

   c. (0, 5) y-axis

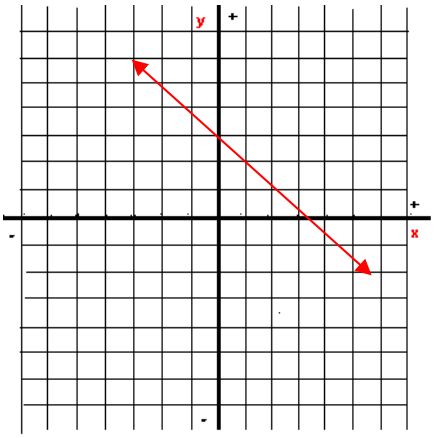
   d. (4, -2) Quadrant IV



3. Determine if the ordered pair (2, 4) is a solution to the equation $3x - 2y = -1$.

   The ordered pair (2, 4) is not a solution to the equation $3x - 2y = -1$.

4. Graph the equation $y = -x + 3$ by plotting points.



The Coordinate System is Our Friend—Post-Test

1. Define the following terms in your own words:

   a. Cartesian coordinate system A plane created by intersecting two number lines perpendicularly at the origin and used to plot the location of an ordered pair.
   b. Ordered pair Two real numbers that give the distance of a point from the origin and represented by the notation (*x*, *y*).
   c. Solution to an equation An ordered pair, (*x*, *y*) that results in a true statement when replacing the variables *x* and *y* in an equation.

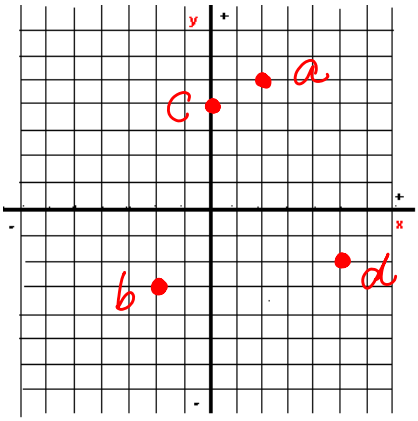
2. Plot the following ordered pairs on the Cartesian coordinate system and name the quadrant or axes where each point is located.

   a. (2, 5) Quadrant I

   b. (-2, -3) Quadrant III

   c. (0, 4) *y*-axis

   d. (5, -2) Quadrant IV



3. Determine if the ordered pair (1, 3) is a solution to the equation $2x - 3y = -1$.

   The ordered pair (1, 3) is not a solution to the equation $2x - 3y = -1$.

4. Graph the equation $y = -x + 5$ by plotting points.