Name _____
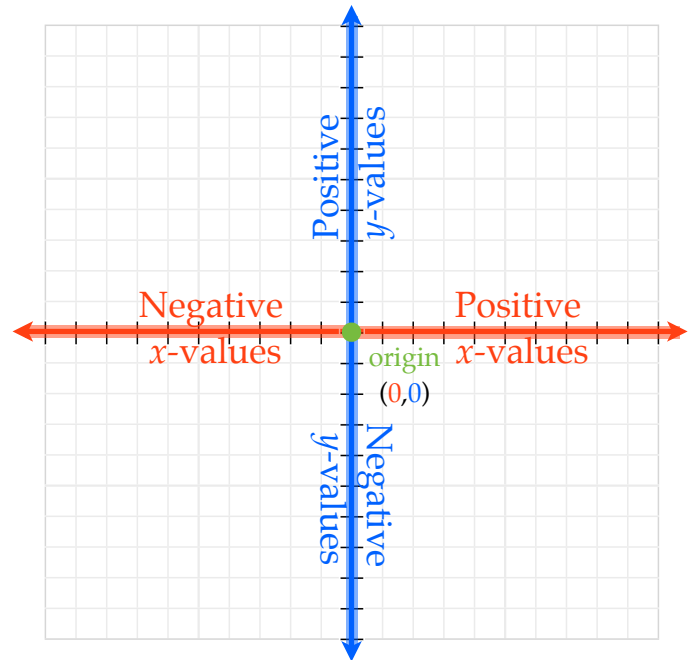
Date _____ Period _____

The Coordinate Plane

x-axis - horizontal number line

y-axis - vertical number line

origin - (0,0) - intersection of x-axis and y-axis

Positive y-values

Negative x-values   Positive x-values

origin (0,0)

Negative y-values

The Coordinate Plane

x-axis - horizontal number line

y-axis - vertical number line
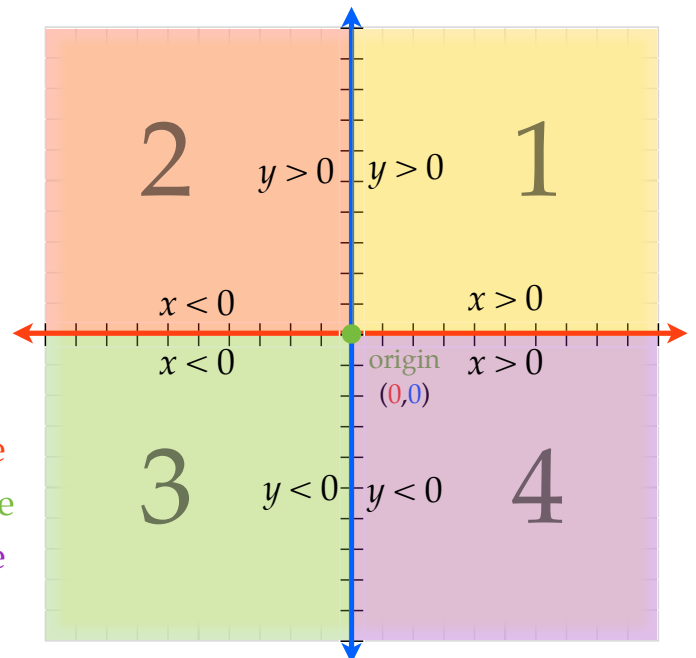
origin - (0,0) - intersection of x-axis and y-axis

Quadrants

  quadrant 1: x is positive *and* y is positive

  quadrant 2: x is negative *and* y is positive

  quadrant 3: x is negative *and* y is negative

  quadrant 4: x is positive *and* y is negative

2 $y > 0$ $y > 0$ 1

$x < 0$ $x > 0$

$x < 0$ origin $x > 0$
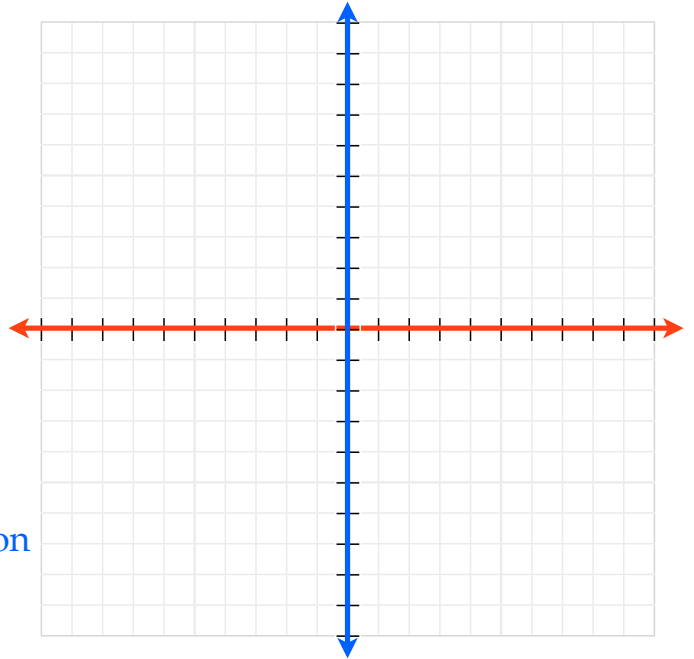
(0,0)

3 $y < 0$ $y < 0$ 4

Plotting Points on the Coordinate Plane

Ordered Pair - a point within the coordinate plane represented by an (x,y) coordinate.

distance you travel in x direction

$$(x,y)$$

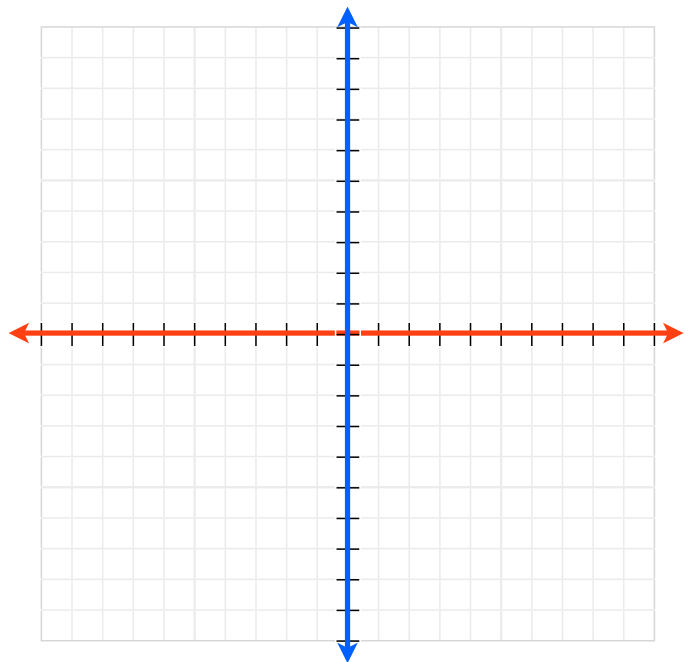distance you travel in y direction

Plotting Points on the Coordinate Plane

(1,5)   (-6,2)

(0,-3)   (3,-2)

The Coordinate Plane

x-axis - horizontal number line

y-axis - vertical number line

origin - (0,0) - intersection of *x*-axis and *y*-axis

Quadrants

quadrant 1: *x* is positive *and* *y* is positive

quadrant 2: *x* is negative *and* *y* is positive

quadrant 3: *x* is negative *and* *y* is negative

quadrant 4: *x* is positive *and* *y* is negative

2

1

$y > 0$ $y > 0$

$x < 0$ $x > 0$

$x < 0$ origin $x > 0$

(0,0)

3

4

$y < 0$ $y < 0$