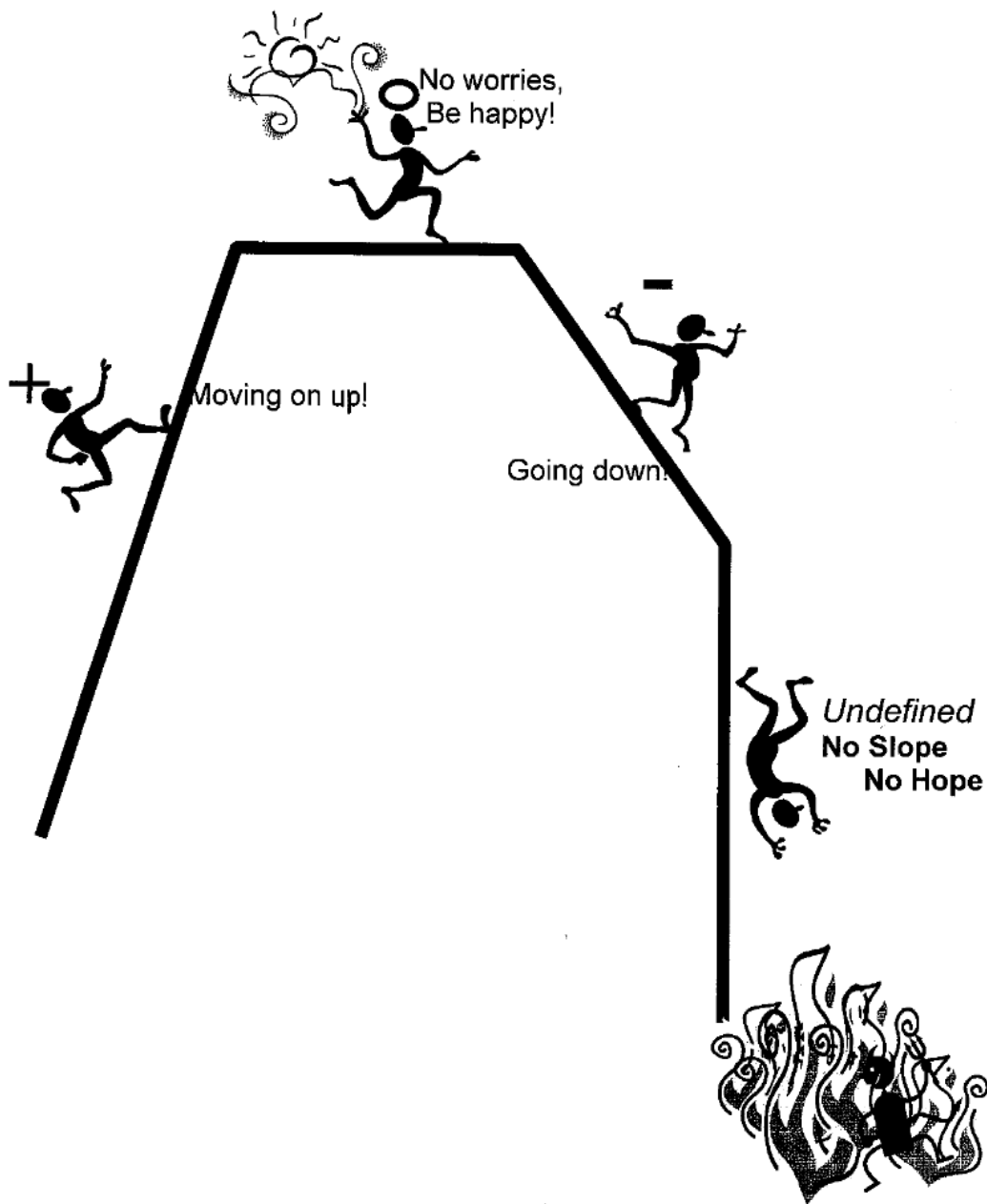


What do lines with positive, negative, zero, and no slope look like?



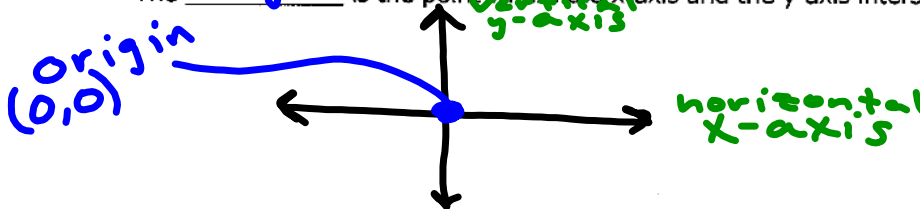
Graphing

Name _____

**Key Questions: How do I graph an ordered pair in the coordinate plane?
Illustrate.**

Definitions:

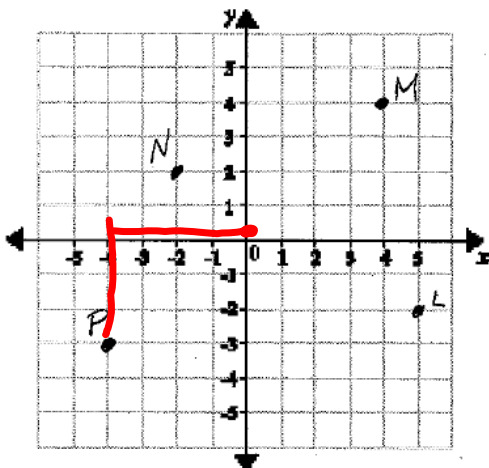
- Like a map, a **coordinate plane** is formed by the intersection of a horizontal axis and a vertical axis.
- The x-axis is the horizontal axis and the y-axis is the vertical axis on the coordinate plane.
- The origin is the point where the x-axis and the y-axis intersect.



- The **x-coordinate** is the 1st number in the ordered pair.
- The **y-coordinate** is the 2nd number in the ordered pair.

(x, y)

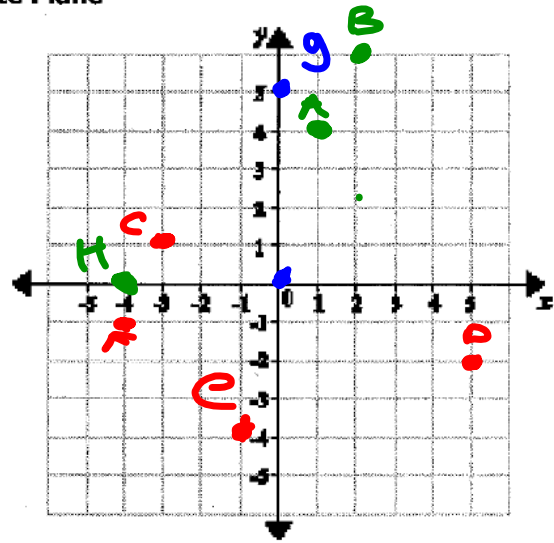
Examples: Finding the Coordinates of Points on a Plane



- Point M (4, 4)
- Point N (-2, 2)
- Point L (5, -2)
- Point P (-4, -3)

Examples: Graphing Points on a Coordinate Plane

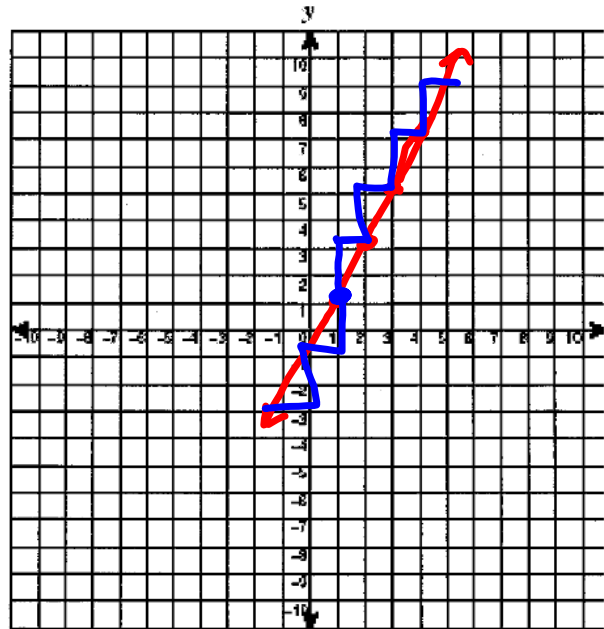
- A (1, 4) E (-1, -4)
- B (2, 6) F (-4, -1)
- C (-3, 1) G (0, 5)
- D (5, -2) H (-4, 0)



Examples: Graphing an Equation

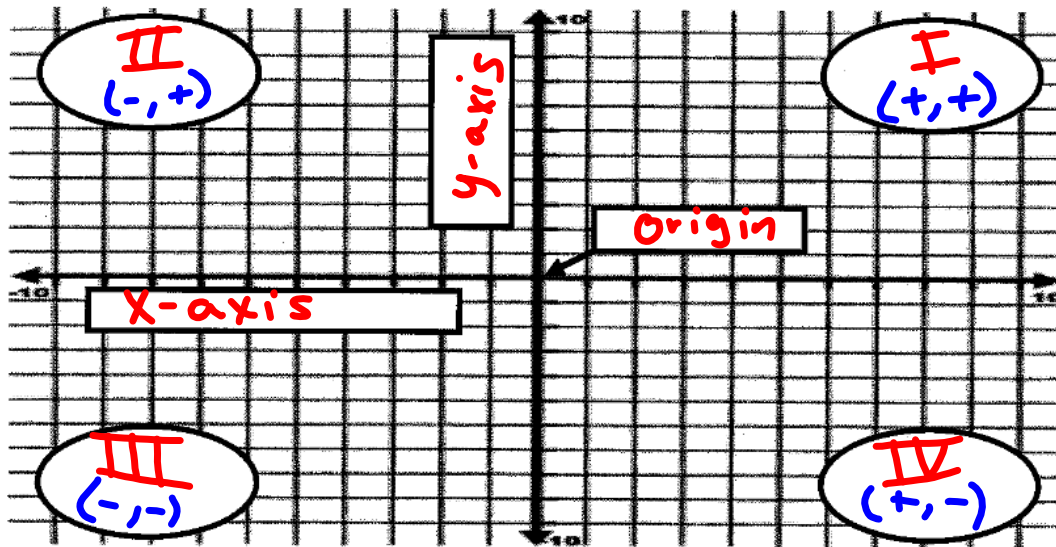
- Graph the equation $y = 2x - 1$.

x	$2x - 1$	Y	(x,y)
1	$2(1) - 1$	1	(1, 1)
2	$2(2) - 1$	3	(2, 3)
3	$2(3) - 1$	5	(3, 5)
4	$2(4) - 1$	7	(4, 7)



(3)

Graphing Ordered Pairs



(X, Y)

X

Y

0 → Don't Move
 + → move right
 - → move left

0 → Don't Move
 + → move up
 - → move down