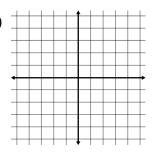
## Slope

Find the slope of the line that passes through the two points.

Two methods:

1) Plot the two points and find the rise and run.

Example: (4,1) and (0,-3)



2) Use 
$$\frac{y_2 - y_1}{x_2 - x_1}$$

Example: (1,4) and (3,9)

$$x_1, y_1$$
  $x_2, y_2$ 

$$x_2, y_2$$

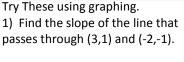
$$x_1 = \frac{1}{2}$$

$$x_1 = 1$$
  $y_1 = 4$   $x_2 = 3$   $y_2 = 9$ 

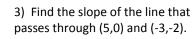
Plug in: 
$$\frac{9-4}{3-1} = \frac{5}{2}$$

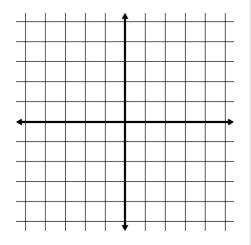
Try These using graphing.

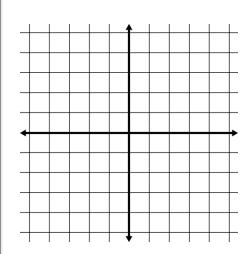
1) Find the slope of the line that

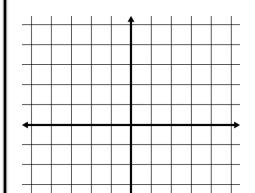


2) Find the slope of the line that passes through (2,2) and (0,-1).

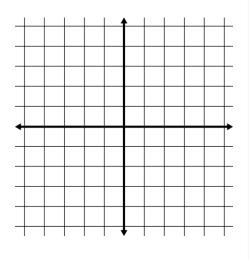




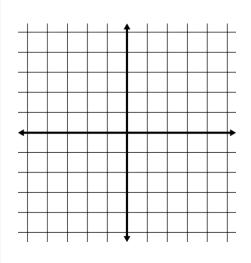




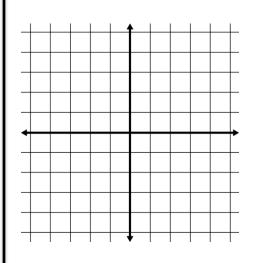
4) Find the slope of the line that passes through (1,2) and (3,5).



5) Find the slope of the line that passes through (2,3) and (-2,1).



6) Find the slope of the line that passes through (0,4) and (1,5).



Try these using $\frac{y_2 - y_1}{x_2 - x_1}$			
7)	(2,4) and (3,5)	8)	(0,3) and (4,4)
9)	(1,6) and (-2,4)	10)	(2,0) and (3, -2)
11)	(-2,4) and (6, -1)	12)	(3,3) and (2,7)
13)	(-3,-2) and (-1,1)	14)	(1,4) and (-3,3)