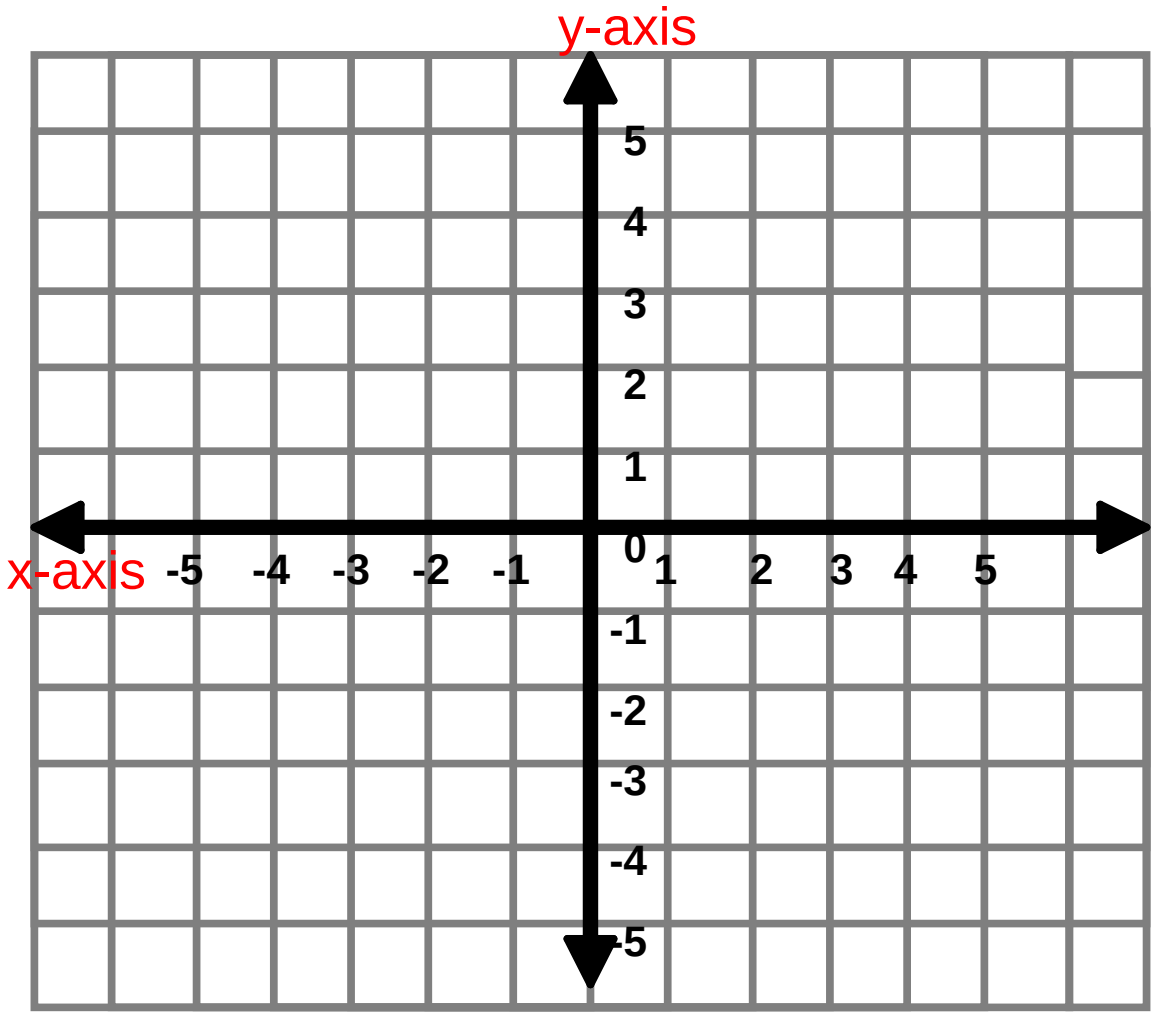
SEMESTER 2 FINAL

CHAPTER 5 REVIEW

Graphing Using a Chart

1) Graph $y = 2x - 3$

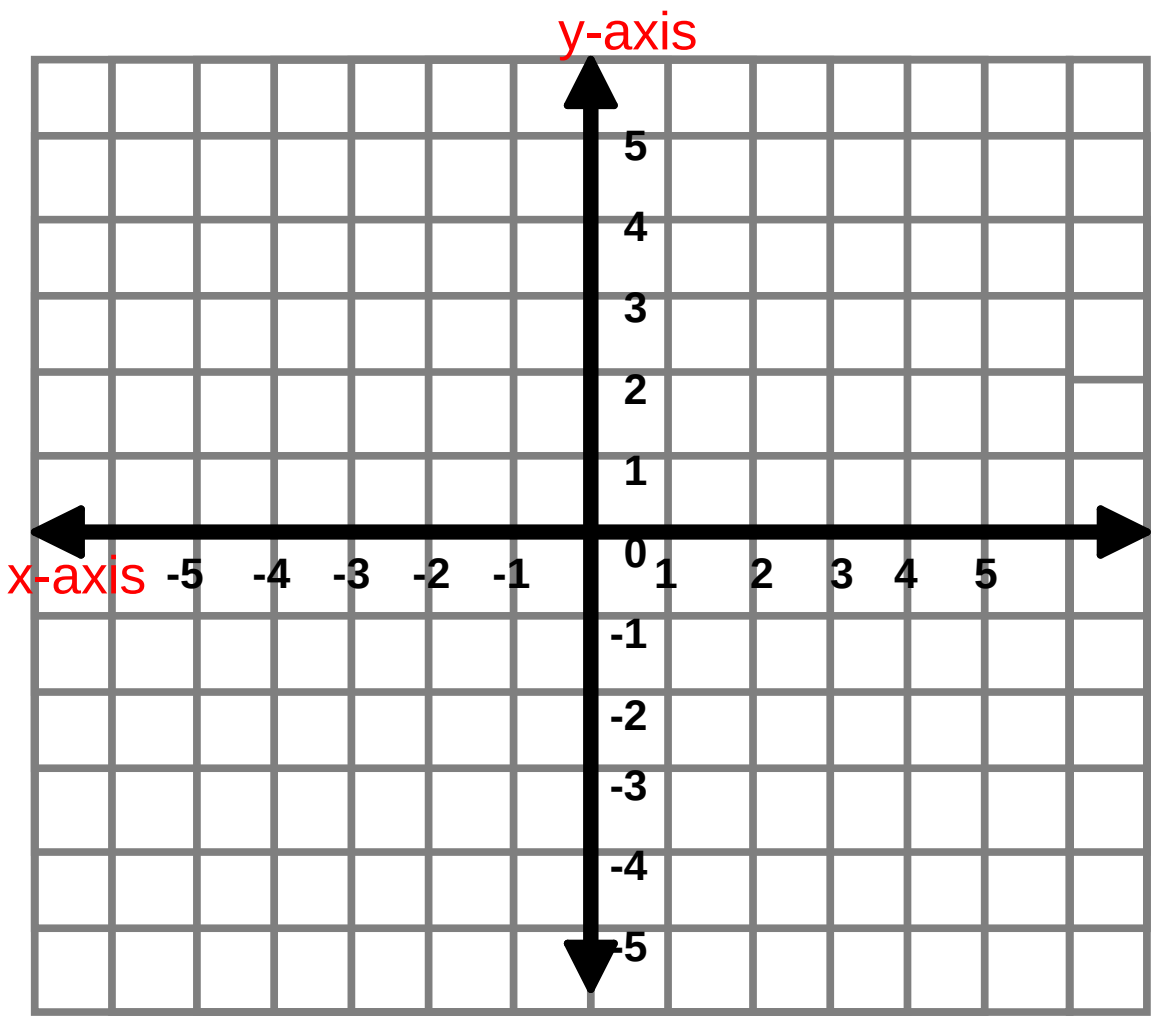
x	y



2) Graph the linear equation.

$$y = -x + 4$$

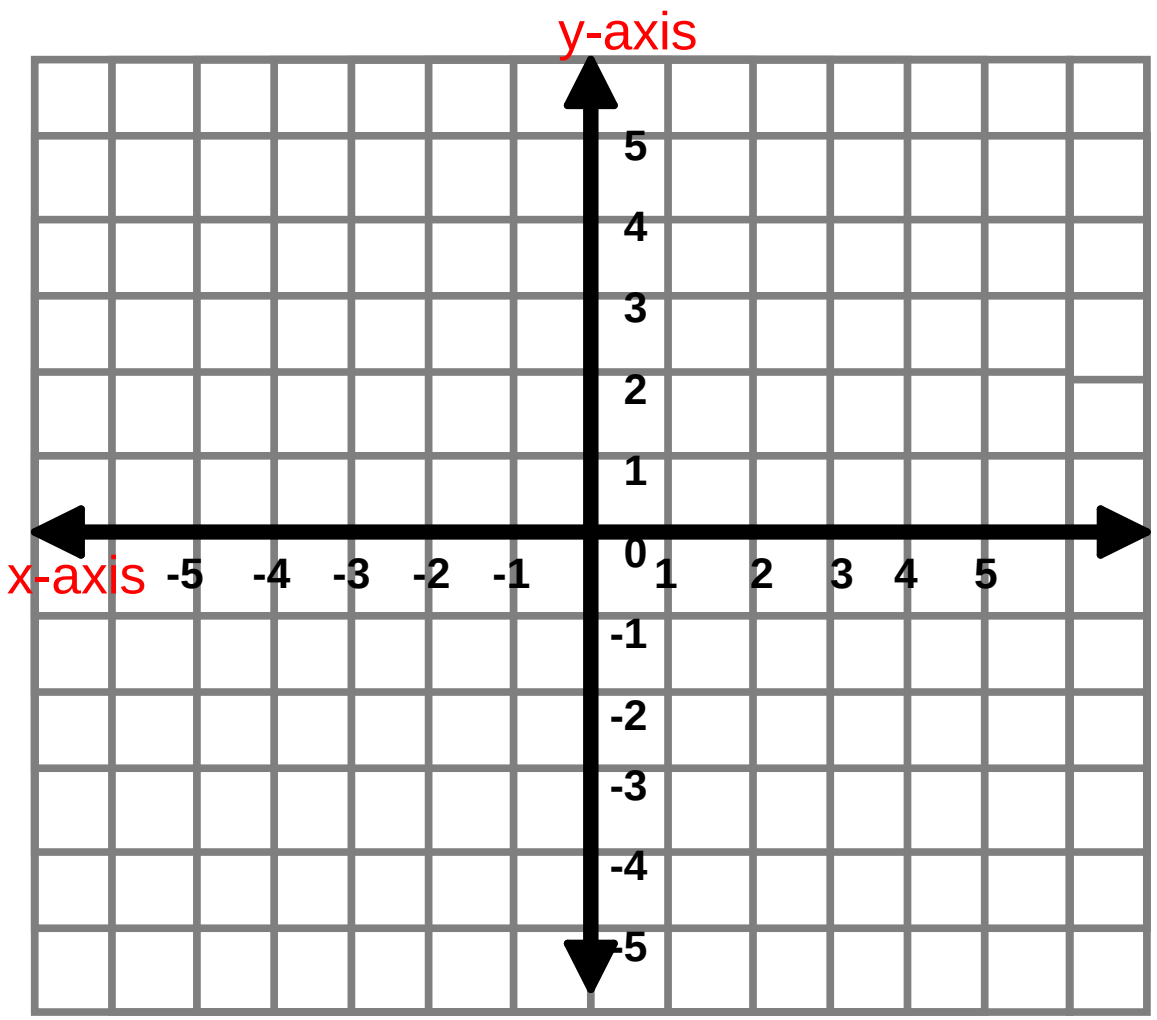
x	y



Graphing Horizontal and Vertical Lines

5) $y = 4$

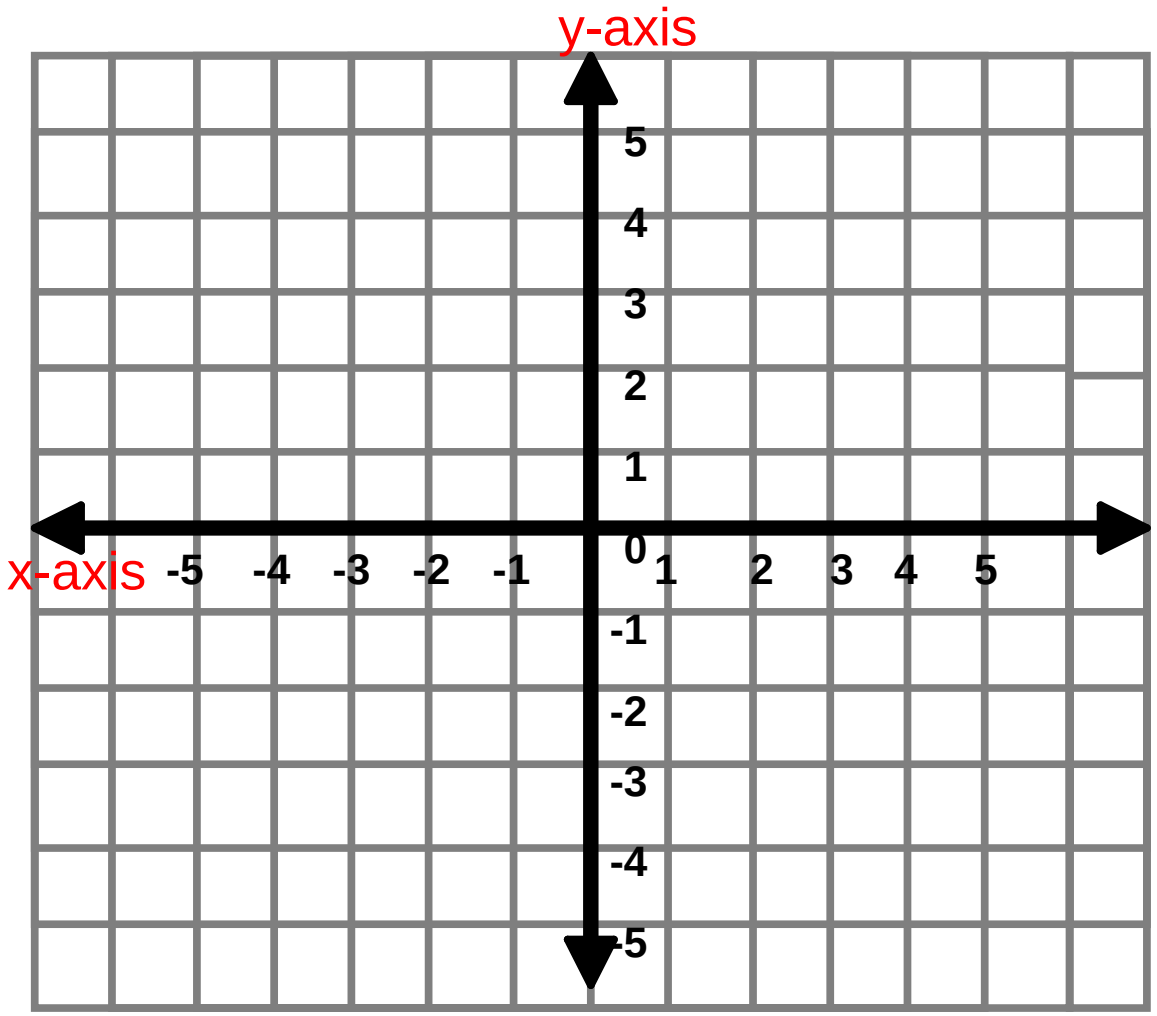
x	y



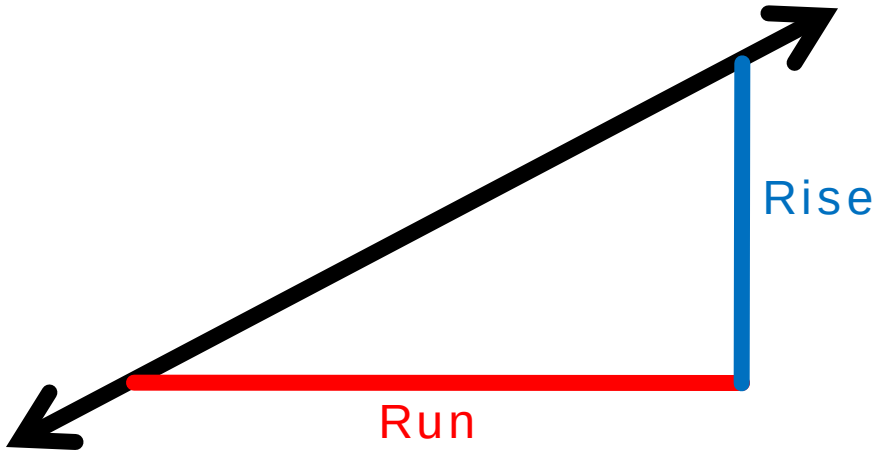
Graphing Horizontal and Vertical Lines

6) $x = 3$

x	y



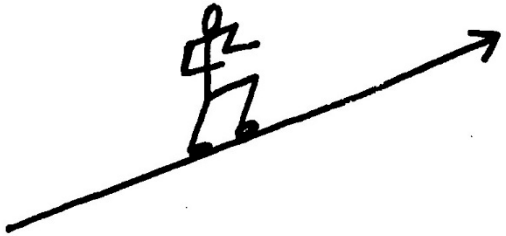
SLOPE OF A LINE



$$slope = \frac{rise}{run}$$

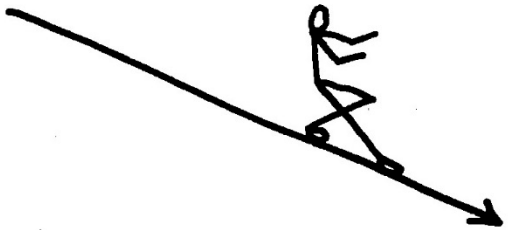
SLOPE OF A LINE

going up



positive slope

going down



negative slope

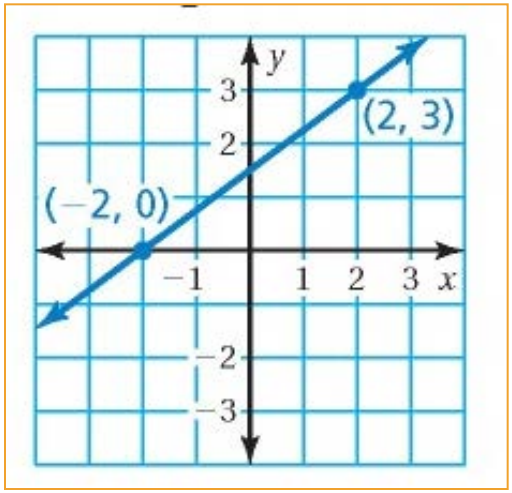
level

0 slope

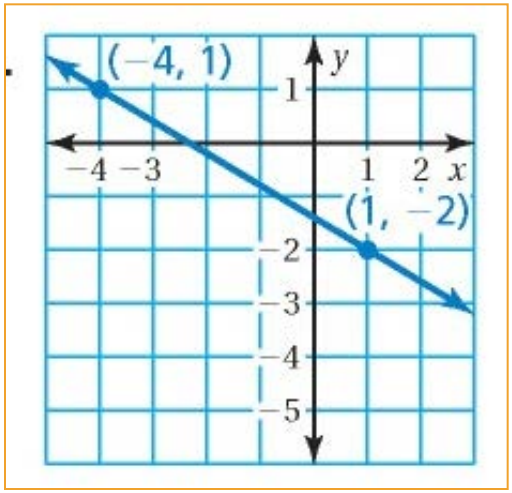
Find the slope of each line.

$$slope = \frac{rise}{run}$$

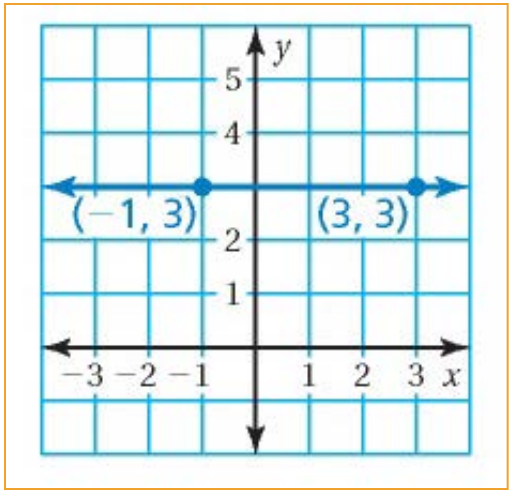
7)



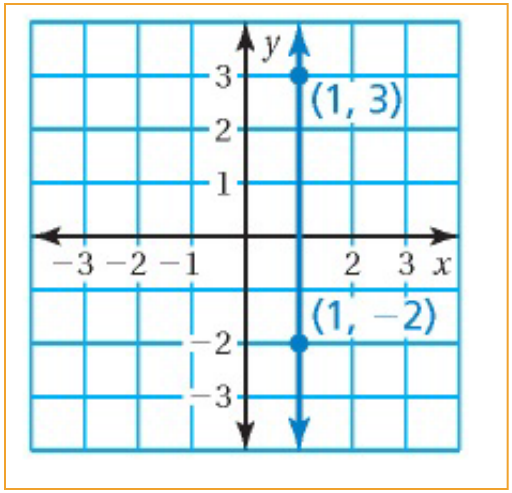
8)



9)



10)



SLOPE FORMULA

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

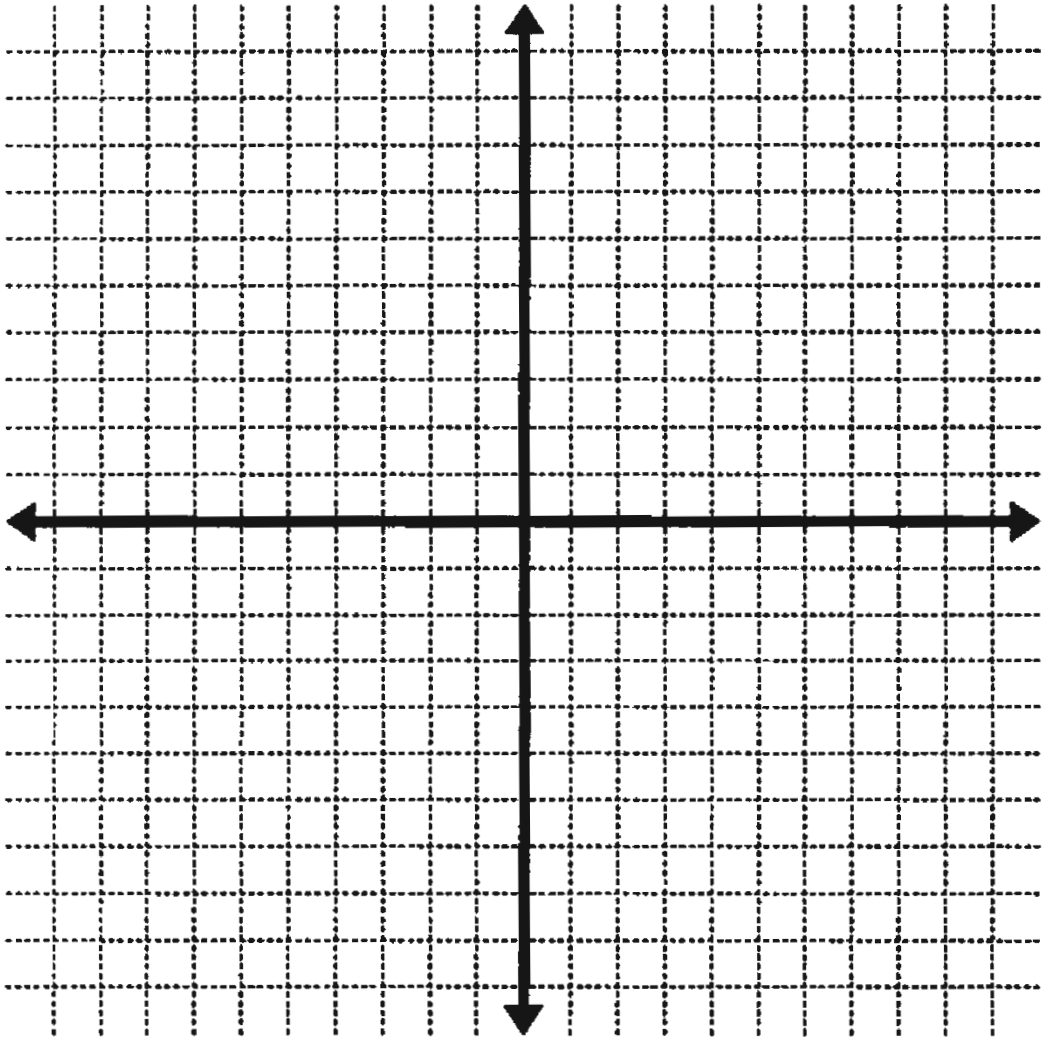
Find the slope between the two points:

11) $(0, 7)$ ***and*** $(-4, -1)$

12) $(-2, 5)$ ***and*** $(9, 5)$

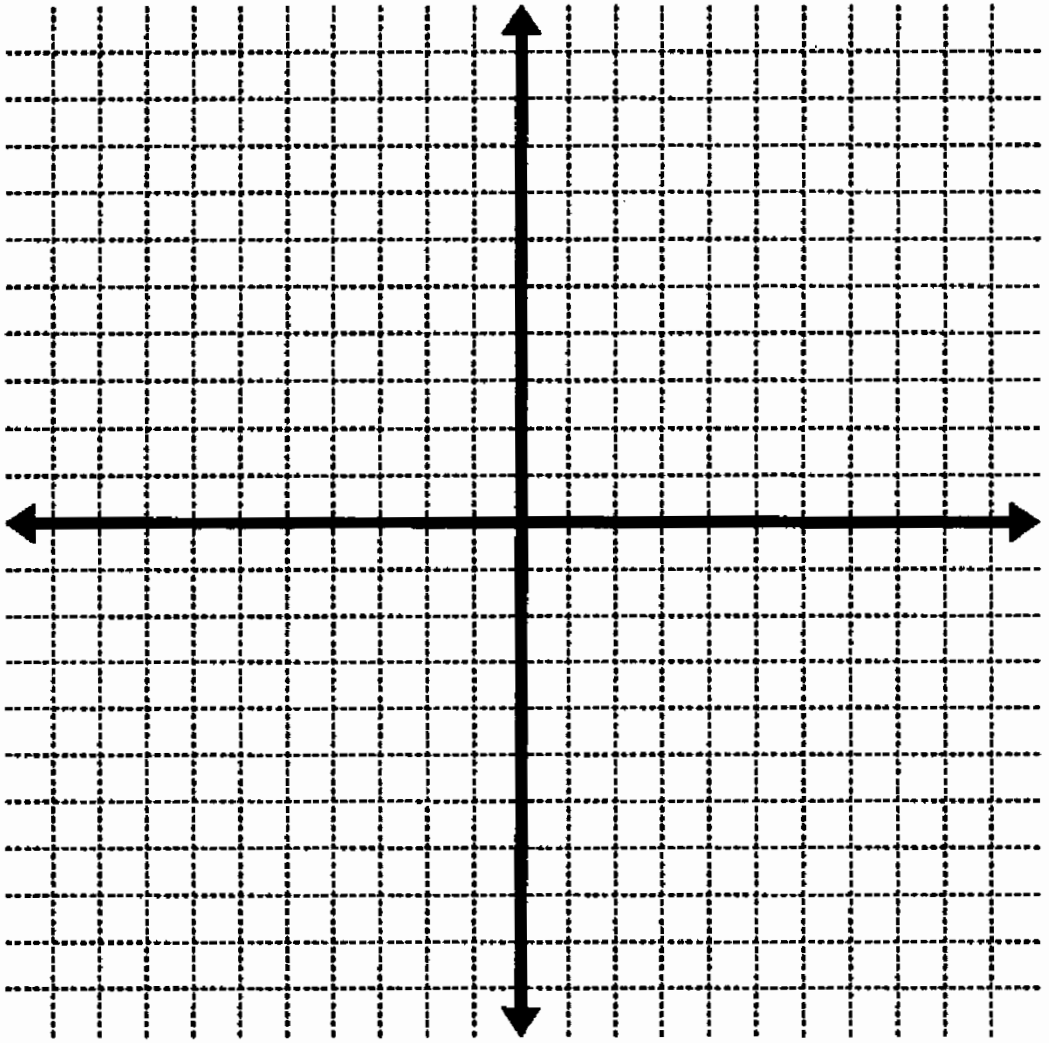
1) $2x + y = 3$

$3y = x - 12$



2) $4y - 3x = 12$

$y + 2x = -8$



Solve the systems of equations by substitution. Check you solution afterwards.

5) $y = 2x$

$x + 3y = 14$

6) $x = y - 3$

$5x + 3y = 1$

7) $2x-3y=9$

$x=2y+2$

8) $x+y=-4$

$-x+2y=13$

9) $x - 2y = 6$

$2x + y = 7$

10) $7x + 5y = 2$

$x - y = 2$

Solve the systems of equations by adding/subtracting/multiplicating first. Check you solution afterwards.

11) $-2x+3y=17$

$2x+y=3$

12) $7x+y=-2$

$7x+3y=8$