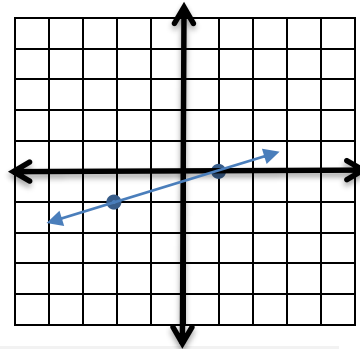
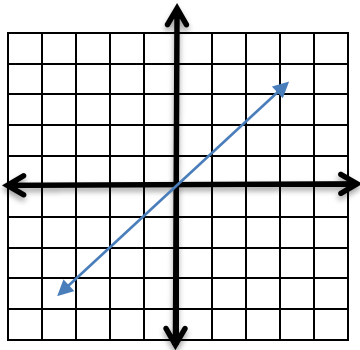


Slope and Rate of Change

Example:

Rate of change in the first graph is 1 and in the second graph is $\frac{1}{3}$.



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

1) $(5, -2), (5, 8)$

5) $(12, 10), (12, 5)$

2) $(1, 2), (7, 7)$


6) $(0.2, -0.9), (0.5, -0.9)$

3) $(3, 0), (-5, -4)$

7) $(7, -4), (4, 8)$

4) $(5, 9), (3, 9)$

8) $(15, 2), (-6, 5)$

 **Find the value of r so the line that passes through each pair of points has the given slope.**

9) $(r, 7), (11, 8), m = \frac{1}{3}$

11) $(-7, 2), (-8, r), m = 5$

10) $(-5, r), (1, 3), m = \frac{7}{6}$

12) $(r, 2), (5, r), m = 0$

Answers***Slope and Rate of Change***

1) indefinid

2) $\frac{5}{6}$ 3) $\frac{1}{2}$

4) 0

5) indefinid

6) 0

7) -4 8) $\frac{-1}{7}$

9) 8

10) -4 11) -3

12) 2