

Foundations for College Algebra

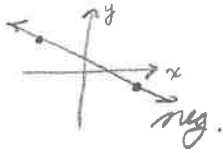
Fall 2017

Quiz #5

Name: Key

Find the slope of the following:

1.) Passing through $(-5, 4)$ and $(8, -2)$



$$m = \frac{(-2) - (4)}{(8) - (-5)} = \frac{-6}{13} = \boxed{-\frac{6}{13}}$$

2.) $2x - 3y = 18$

$$-3y = -2x + 18$$

$$y = \boxed{\frac{2}{3}}x - 6$$

$$\boxed{m = \frac{2}{3}}$$

Write the equation of the line in *Standard Form* from the following information.

3.) Through $(-5, 6)$; $m = -\frac{3}{5}$

$$6 = -\frac{3}{5}\left(-\frac{5}{1}\right) + b$$

$$6 = -3 + b$$

$$3 = b$$

$$y = -\frac{3}{5}x + 3$$

$$5(y = -\frac{3}{5}x + 3)$$

$$5y = -3x + 15$$

$$\boxed{3x + 5y = 15}$$

Write the equation in *Standard Form*.

4.) $y = -\frac{7}{4}x + \frac{2}{3}$

$$12(y = -\frac{7}{4}x + \frac{2}{3})$$

$$12y = -21x + 8$$

$$\boxed{21x + 12y = 8}$$