Remediation	Name
Unit 2 Objective 6	Section

Determine the slope of a line given an equation.

To find the slope of a line from an equation, write the equation into slope-intercept form and use the formula y = mx + b.

To put an equation into slope-intercept form, solve the equation for y. The slope will be the number in front of the x (the coefficient of the x term).

Example 1: $y = \frac{3}{11}x + 2$ $m = \frac{3}{11}$

Example 2: 3x - 2y = 11

$$-2y = -3x + 11$$
$$y = \frac{-3}{-2}x + \frac{11}{-2}$$
$$y = \frac{3}{2}x - \frac{11}{2}$$
$$m = \frac{3}{2}$$

Find the slope for each of these equations. Show all work.

1. $y = -\frac{7}{5}x + 2$ m =2. 2x - 8y = 1m =

3.
$$y = 9x - 5$$

 $m =$
4. $5x + y = 7$
 $m =$

5.
$$y = \frac{2}{3}x - 10$$

 $m =$
6. $-2x - 7y = 8$
 $m =$

7.
$$y = -11x$$

 $m =$
8. $x - 7y = 14$
 $m =$

9.
$$y = \frac{1}{8}x - 14$$

 $m =$
10. $6x + 8y = 5$
 $m =$

11.
$$y = -7$$

 $m =$
12. $-5x - 20y = 8$
 $m =$