## Practice 2.2

Name: Koy

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

2. Write an equation in all three forms for a line with slope 3 through (9, -4).

Point-Slope Form: 
$$4+4=3(x-9)$$

Slope-Intercept Form: 
$$y = 3x - 31$$

Standard Form: 
$$3x-y=31$$

$$y+y=3x-27$$
 $-4$ 
 $y=3x-31$ 
 $-3x$ 
 $-1(-3x+y=-31)$ 
 $3x-y=31$ 

Write in point-slope form an equation of the line through the points (-3, 8) and (7,

$$\frac{(y-8=-\frac{1}{5}(x+3))}{y-8=-\frac{1}{5}(x+3)} = \frac{(6-8)}{7+1} = \frac{-2}{10} = -\frac{1}{5}$$

$$\frac{(9-8)}{7+1} = \frac{-2}{10} = -\frac{1}{5}$$

Now write in slope-intercept form and standard form.

Slope-interest: 
$$y = -5x + \frac{37}{5}$$
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Standard: 54 = -5x + 37 60 y= -5x + 7.4 Standard: 54 = -5x + 37 50 y= -5x + 37 Standard: 54 = Write the equation 3x - 12y = 6 in slope-intercept form. What is the slope? What is the y-intercept?