Name Yey
Mrs. Roumbos

Date:_____
8A Period_____

Do Now

1) What is the equation of a line in slope- intercept form that goes through point (5,2) and has a slope of -3?

m

$y = mx + b$

$m = -3$

$b = 17$

$y = -3x + 17$

(5,2) $m = -3$
x y

$y = mx + b$

$2 = (-3)(5) + b$

$2 = -15 + b$

$+15 \quad +15$

$17 = b$

x y

2) What is the equation of a line in slope-intercept form that goes through the points (3,4) and (5,8)?

$y = mx + b$

$m = 2$

$b = -2$

$y = 2x - 2$

m

(3,4)(5,8)
$x_1 y_1 \quad x_2 y_2$

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

$m = \frac{8-4}{5-3}$

$m = \frac{4}{2}$

$m = 2$

b

(3,4) $m = 2$
x y

$y = mx + b$

$4 = (2)(3) + b$

$4 = 6 + b$

$-6 \quad -6$

$-2 = b$