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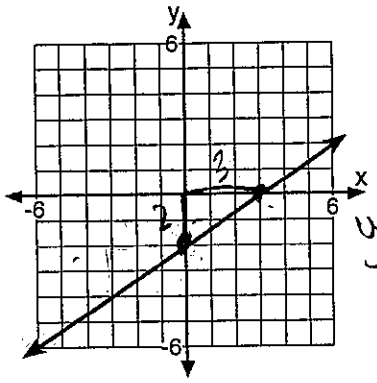
Name Key Date

Ms. Roumbos 8R Period

Equation of a line Homework

1) 

$y = mx + b$
$m = \frac{2}{3}$
$b = -2$

What is the equation of the given graphed line?

A) $y = \frac{3}{2}x - 2$

B) $y = -\frac{2}{3}x - 2$

C) $y = \frac{2}{3}x - 2$

D) $y = -\frac{3}{2}x - 2$

2) Determine the slope and y-intercept of the line $y = 3x - 6$.

m = slope = 3

b = y-int = -6

3) The graph of which equation has a slope (m) of 3 and a y-intercept (b) of -4?

A) $y = -4x - 3$

B) $y = 3x - 4$

C) $y = 3x + 4$

D) $y = -4x + 3$

$m = 3$
$b = -4$

4) Find the slope of the graph of the given equation:

$y - 4x = 7$
$+4x \quad +4x$

$y = 4x + 7$

m = slope = 4

5) What is the slope of the line whose equation is $2y = 3x + 6$?

A) 6

B) 3

C) $\frac{2}{3}$

D) $\frac{3}{2}$

$\frac{2y}{2} = \frac{3x}{2} + \frac{6}{2}$

$y = \frac{3}{2}x + 3$

6) Write an equation of a line whose slope is 2 and whose y-intercept is -3.

m b

$y = 2x - 3$

m = 2
b = -3

7) Determine the slope and y-intercept of the line $y = 2x + 1$.

m b

m = Slope = 2

b = y-int = 1

8) The graph of which equation has a slope of -2 and a y-intercept of 3?

m b

A) $y = -2x + 3$
B) $y = -2x - 3$
C) $y = 3x + 2$
D) $y = 3x - 2$

m = -2
b = 3