Name Key Date

s. Roumbos 8R Period

Slope Homework

1) Find the slope of the line that passes through the points (8,3) and (6,-1).

(x_1, y_1) (x_2, y_2)

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

$$m = \frac{-1-3}{6-8} \quad m = \frac{-4}{-2} \quad \boxed{m = 2}$$

2) Find the slope of the line that passes through the points (1,4) and (4,7).

(x_1, y_1) (x_2, y_2)

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

$$m = \frac{7-4}{4-1} \quad m = \frac{3}{3} \quad \boxed{m = 1}$$

3) Find the slope of the line that passes through the points ( ) and ( )

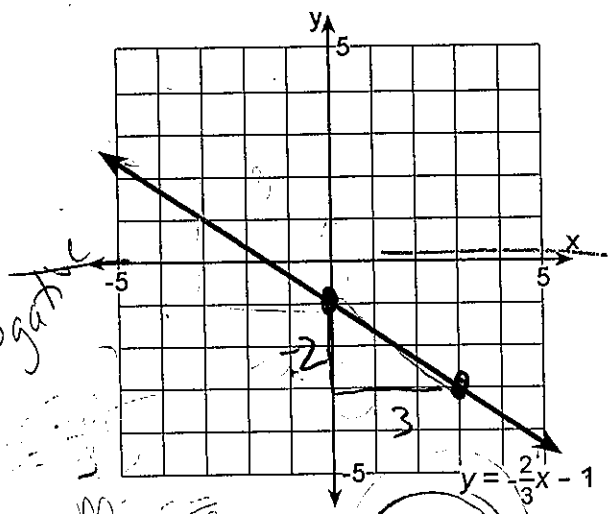
$(0,1)$ $(2,5)$

(x_1, y_1) (x_2, y_2)

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

$$m = \frac{5-1}{2-0} \quad m = \frac{4}{2} \quad \boxed{m = 2}$$

4) Determine the slope of the line graphed below.



A) $-\frac{3}{2}$

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

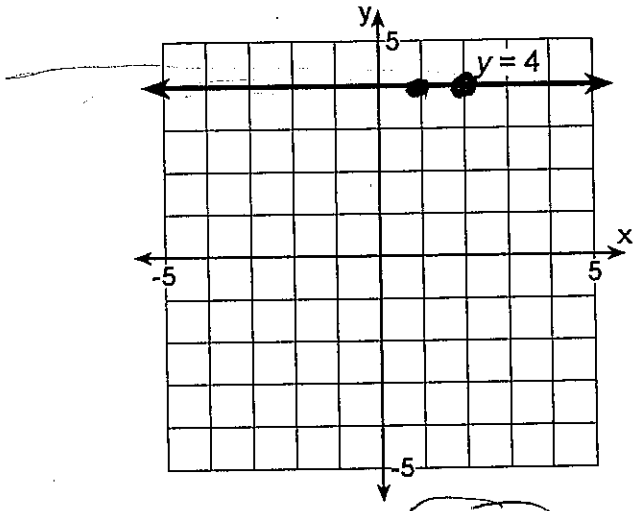
C) $-\frac{2}{3}$

D) -1

$$m = \frac{\text{rise}}{\text{run}}$$

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

5) Determine the slope of the line graphed below.



A) -4
B) 4
C) 0
D) none of these

(1, 4) (2, 4)
x_1 y_1 x_2 y_2

$m = \frac{y_2 - y_1}{x_2 - x_1}$ $m = \frac{4-4}{2-1}$

$m = \frac{0}{1}$ $m = 0$

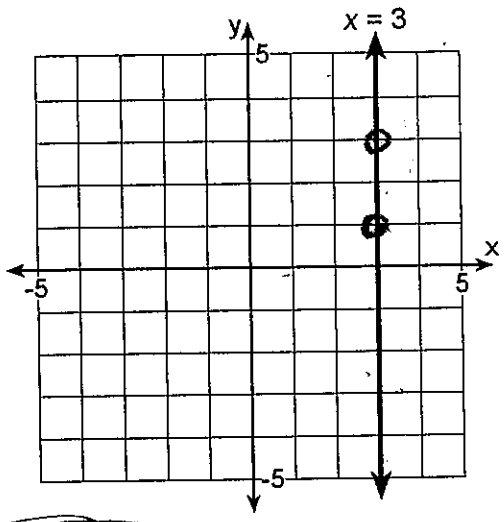
6) Find the slope of the line that passes through the points (6,9) and (5,4).

x_1 y_1 x_2 y_2

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

$m = \frac{4-9}{5-6}$ $m = \frac{-5}{-1}$ $m = 5$

7) Determine the slope of the line graphed below.

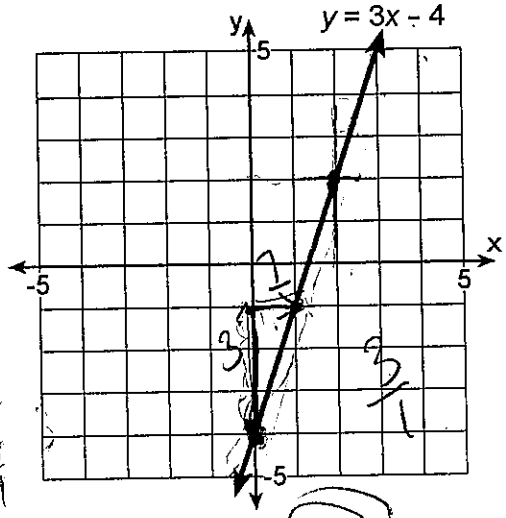


A) undefined
B) -3
C) $\frac{1}{3}$
D) 3

(3, 3) (3, 1)
x_1 y_1 x_2 y_2

$m = \frac{y_2 - y_1}{x_2 - x_1}$ $m = \frac{1-3}{3-3}$ $m = \frac{-2}{0}$

8) Determine the slope of the line graphed below.



positive

A) -3
B) -4
C) 3
D) 4

$m = \frac{\text{rise}}{\text{run}}$

$m = \frac{3}{1}$