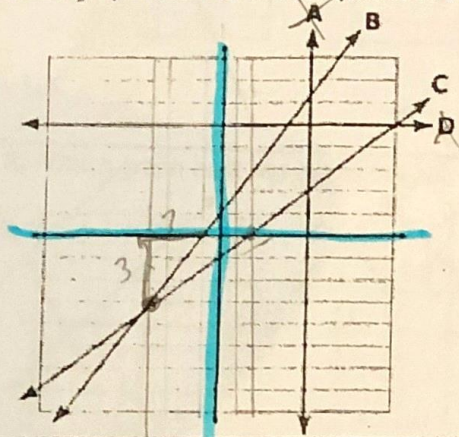


Name: \_\_\_\_\_

Date: ~~4/2/20~~ \_\_\_\_\_ Per: \_\_\_\_\_

SHOW ALL WORK NEEDED TO ANSWER EACH QUESTION.  
PLACE YOUR FINAL ANSWER IN THE BOX. GOOD LUCK! ☺

Use the graph below to answer questions 1 & 2.



1. Which line has a slope of  $\frac{3}{4}$ ?

rise  
run

**C**

2. Which line has an undefined slope?

**A**

3. What is the slope of the line that contains the points  $(-6, 1)$  and  $(4, -4)$ ?

A. 2

B. -2

C.  $\frac{1}{2}$

D.  $-\frac{1}{2}$

$$\frac{y_1 - y_2}{x_1 - x_2} = \frac{1 - (-4)}{-6 - 4} = \frac{5}{-10}$$

$\frac{5}{-10}$

**D**

4. What is the slope of the line that contains the points  $(13, -2)$  and  $(3, -2)$ ?

A.  $-\frac{2}{5}$

B. 0

C.  $-\frac{5}{2}$

D. undefined

$x_1 y_1 \quad x_2 y_2$

$$\frac{-2 - (-2)}{13 - 3} = \frac{0}{10} = 0$$

**B**

5. What is the slope of the line whose equation is  $2y = 3x + 4$ ?

A. 3

B. 2

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

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

$$\frac{2y}{2} = \frac{3x + 4}{2} \\ y = mx + b$$

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

**C**

6. Which is an equation of the line with a slope of  $\frac{1}{4}$  and a y-intercept of -2?

A.  $x - 4y = 8$

B.  $x + 4y = -8$

C.  $4x + y = -2$

D.  $4x - y = 2$

$$y = mx + b \\ \downarrow \quad \downarrow \\ \text{slope} \quad \text{y-int}$$

$$y = \frac{1}{4}x - 2$$

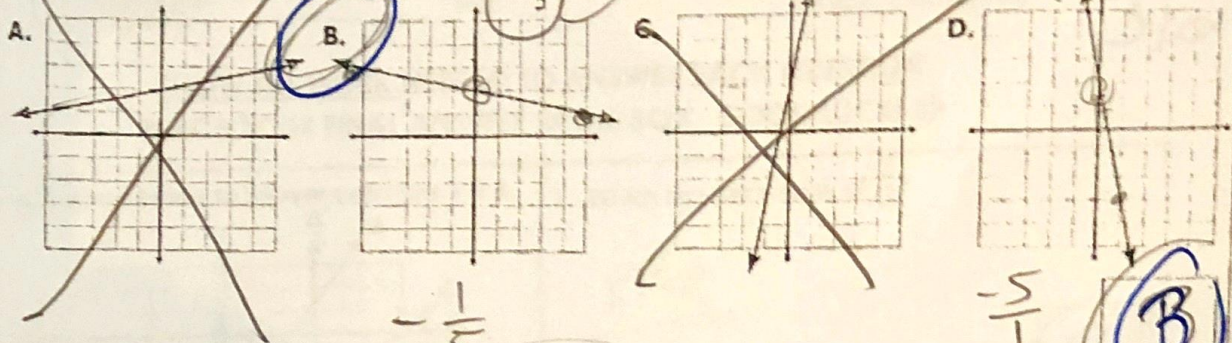
**A**

$$4y = x - 8 \quad | \quad 4y - x = -8 \\ -x \quad -x \\ \hline -4y + x = 8$$



$-\frac{1}{5} \quad \frac{1}{5}$

7. Which graph best represents the line  $y = -\frac{1}{5}x + 2$ ?

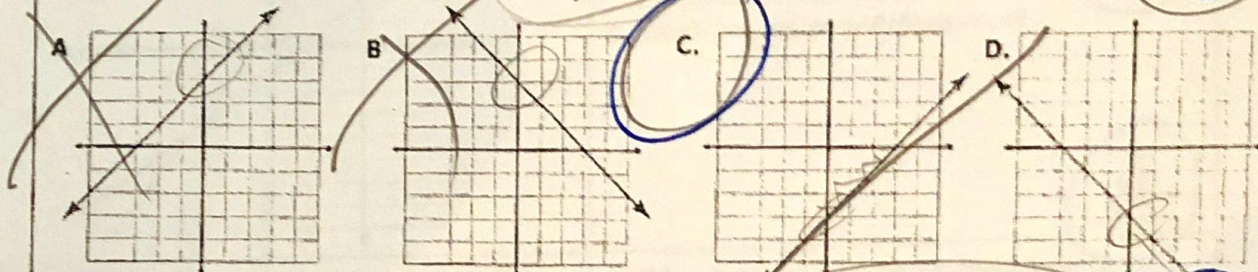


$-\frac{1}{5}$

$-\frac{5}{1}$

**B**

8. Which graph best represents the line  $x - y = 3$ ?



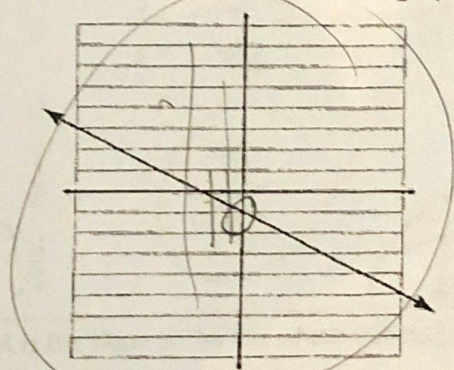
$x - y = 3$   
 $+y +4$

$x = y + 3$   
 $-3$

$y = x - 3$

**C**

9. Identify the equation of the line graphed below.



A.  $x + 2y = -2$

B.  $x - 2y = 2$

C.  $2x + y = -1$

D.  $2x - y = 1$

$y = mx + b$

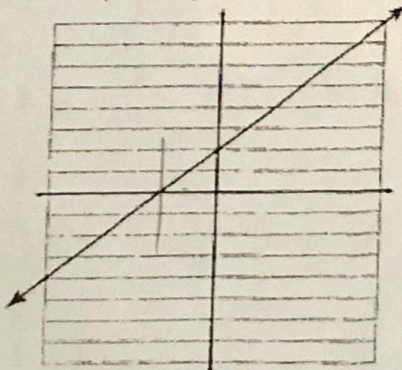
$2y = -\frac{1}{2}x - 1$

$2y = -1x - 2$

$x + 2y = -2$

**A**

10. Identify the equation of the line graphed below.



A.  $4x + 3y = 6$

B.  $4x - 3y = -6$

C.  $3x + 4y = 8$

D.  $3x - 4y = -8$

y-int: 2

slope =  $\frac{3}{4}$

$y = \frac{3}{4}x + 2$

$4y = 3x + 8$

$-3x - 3x$

$-3x + 4y = -8$

**D**

$3x - 4y = -8$