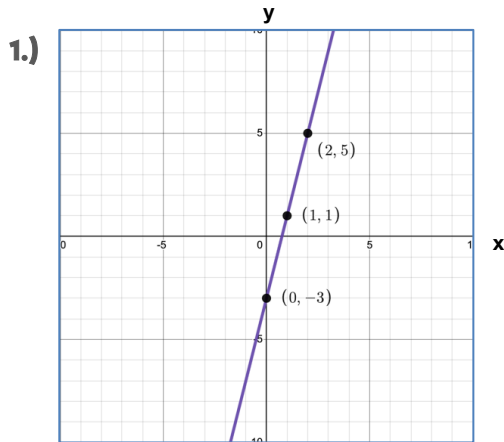


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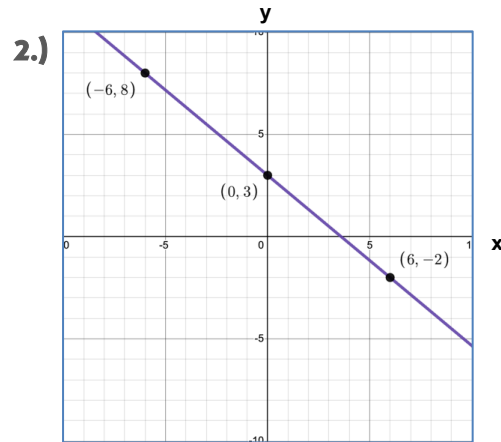


## PRACTICE WRITING LINEAR EQUATIONS

**Part I:** Write the equation for each graph in slope-intercept form ( $y = mx + b$ )



\_\_\_\_\_



\_\_\_\_\_

**Part II:** Write the equation of each line in slope-intercept form ( $y = mx + b$ )

3.) Slope is  $\frac{1}{5}$  and y-intercept is 9 \_\_\_\_\_

4.) Slope is  $-4$  and y-intercept is  $-12$  \_\_\_\_\_

5.) Slope is 0 and y-intercept is  $\frac{5}{2}$  \_\_\_\_\_

**Part III:** Write the equation of each line in slope-intercept form ( $y = mx + b$ )

6.) Passes through (1,-7) and (2,-13) with a y-intercept at -1 \_\_\_\_\_

7.) Passes through (3,7) and (9,11) with a y-intercept at 5 \_\_\_\_\_

8.) Passes through (-1,9) and (2,-18) with a y-intercept at 0 \_\_\_\_\_

**Part III:** Write the equation of each line in slope-intercept form ( $y = mx + b$ )

9.) Passes through the point (-2,-1) with a slope of 3 \_\_\_\_\_

10.) Passes through the point (3,5) with a slope of  $\frac{8}{3}$  \_\_\_\_\_

11.) Passes through the point (1,-1) with a slope of  $-4$  \_\_\_\_\_

12.) Passes through the point (2,0) with a slope of 1 \_\_\_\_\_

## ANSWER KEY

1.)  $y = \frac{1}{2}x - 3$

2.)  $y = -\frac{5}{6}x - 3$

3.)  $y = \frac{1}{5}x + 9$

4.)  $y = -4x - 12$

5.)  $y = \frac{5}{2}$

6.)  $y = -6x - 3$

7.)  $y = \frac{2}{3}x + 5$

8.)  $y = -9x$

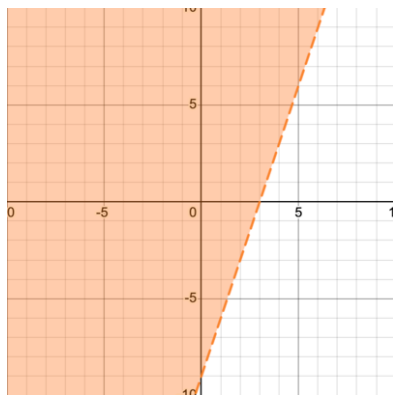
9.)  $y = 3x + 5$

10.)  $y = \frac{8}{3}x - 3$

11.)  $y = -4x + 3$

12.)  $y = x - 2$

2.)



3.)  $y < -\frac{1}{2}x + 3$

4.) B