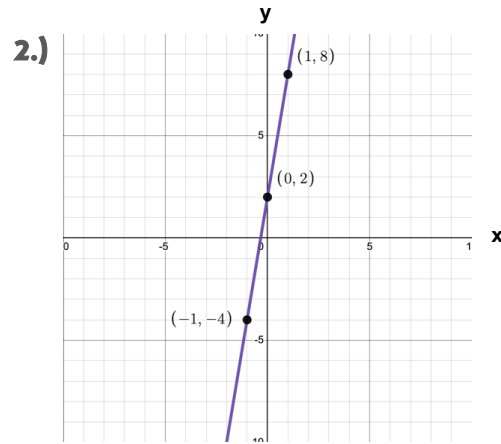
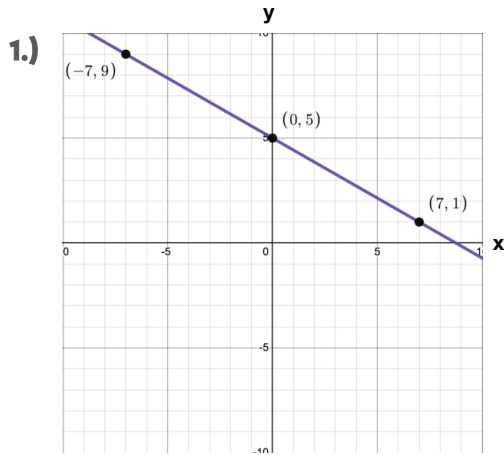


Name: \_\_\_\_\_

# 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  $-2$  and y-intercept is  $-2$  \_\_\_\_\_
- 4.) Slope is  $\frac{7}{6}$  and y-intercept is  $14$  \_\_\_\_\_
- 5.) Slope is  $-1$  and y-intercept is  $\frac{11}{5}$  \_\_\_\_\_

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

- 6.) Passes through  $(-2, 12)$  and  $(-1, -4)$  with a y-intercept at  $-4$  \_\_\_\_\_
- 7.) Passes through  $(-6, -14)$  and  $(6, -4)$  with a y-intercept at  $-9$  \_\_\_\_\_
- 8.) Passes through  $(3, 4)$  and  $(8, -11)$  with a y-intercept at  $13$  \_\_\_\_\_

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

- 9.) Passes through the point  $(5, 0)$  with a slope of  $-\frac{4}{5}$  \_\_\_\_\_
- 10.) Passes through the point  $(0, -5)$  with a slope of  $\frac{5}{4}$  \_\_\_\_\_
- 11.) Passes through the point  $(-3, -3)$  with a slope of  $-\frac{1}{3}$  \_\_\_\_\_
- 12.) Passes through the point  $(4, -5)$  with a slope of  $-8$  \_\_\_\_\_

## ANSWER KEY

1.)  $y = -\frac{4}{7}x + 5$

2.)  $y = 6x + 2$

3.)  $y = -2x - 2$

4.)  $y = \frac{7}{6}x + 14$

5.)  $y = -x + \frac{11}{5}$

6.)  $y = -8x - 4$

7.)  $y = \frac{5}{6}x - 9$

8.)  $y = -3x + 13$

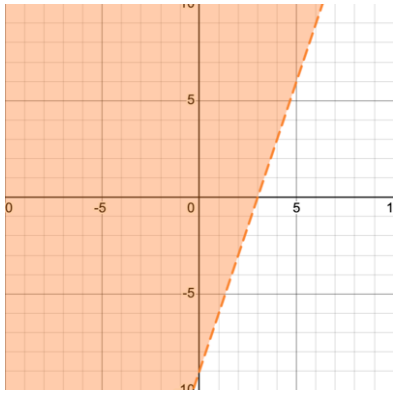
9.)  $y = -\frac{4}{5}x + 4$

10.)  $y = \frac{5}{4}x - 5$

11.)  $y = -\frac{1}{3}x - 4$

12.)  $y = -8x + 27$

2.)



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

4.) B