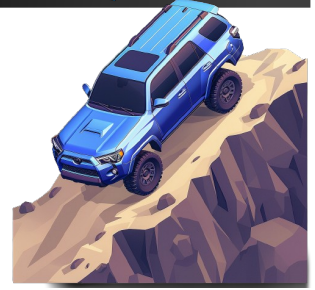


Name: _____

Practice with Slope-Intercept Form (C)



Slope-Intercept Form

$$y = mX + b$$

↑ ↑
slope y-intercept

Part I: Identify the slope and y-intercept for each of the following equations in slope-intercept form:

01) $y = -\frac{1}{6}x + 3$
s

05) $y = 2x - 2$

02) $y = \frac{7}{8}x - 10$

06) $y = \frac{4}{5}x$

03) $y = -x + 5$

07) $y = -9x + 8$

04) $y = 9 + \frac{1}{2}x$

08) $y = 13$

Part II: Write the slope-intercept form equation for each line given its slope and y-intercept:

09) slope = -1 , y-intercept = 7

13) slope = $\frac{5}{6}$, y-intercept = -1

10) slope = $\frac{3}{7}$, y-intercept = -4

14) slope = 10 , y-intercept = 5

11) slope = 6 , y-intercept = 0

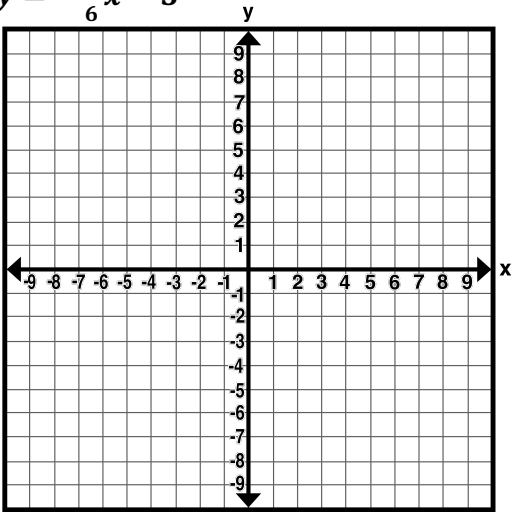
15) slope = 0 , y-intercept = -9

12) slope = $-\frac{1}{8}$, y-intercept = -8

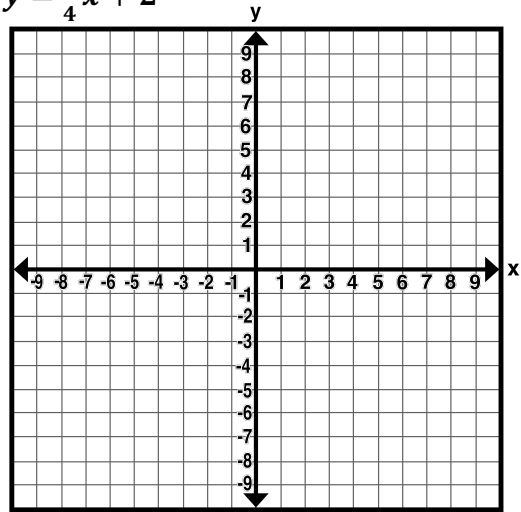
16) slope = $-\frac{5}{12}$, y-intercept = -11

Part III: Sketch the graph of each equation on the graph provided.

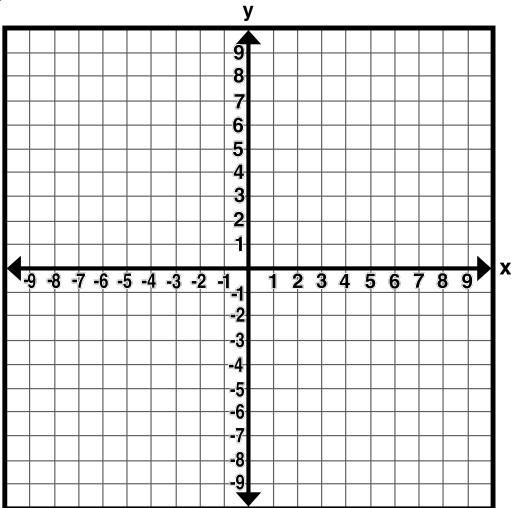
17.) $y = -\frac{1}{6}x - 3$



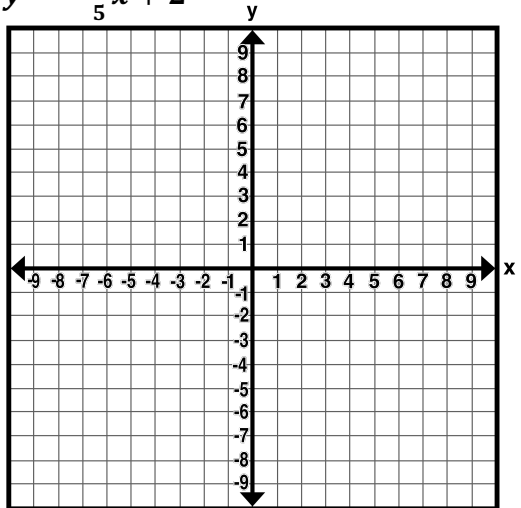
18.) $y = \frac{5}{4}x + 2$



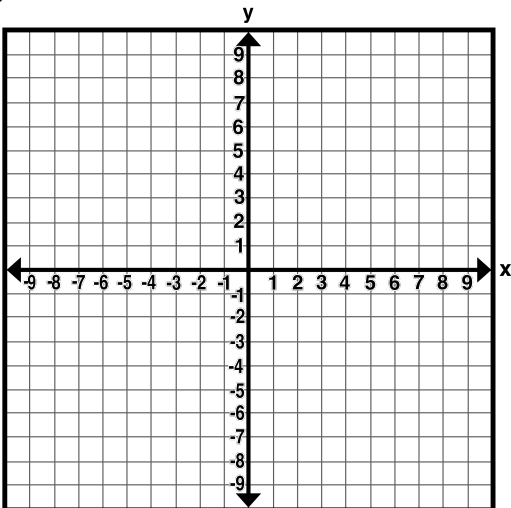
19.) $y = -6x$



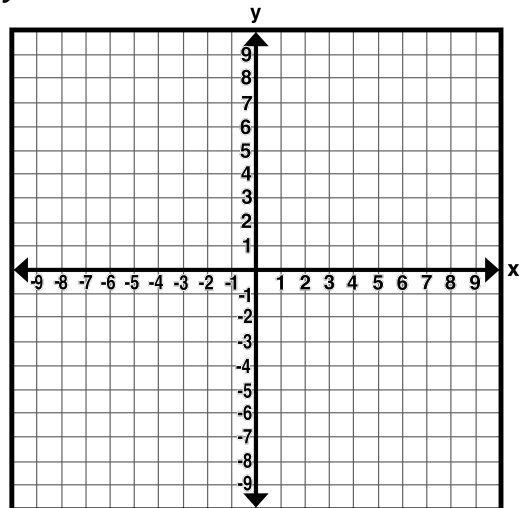
20.) $y = -\frac{3}{5}x + 2$



21.) $y = x + 9$



22.) $y = -3$



ANSWER KEY

Part I: Identify the slope and y-intercept for each of the following equations in slope-intercept form:

01) $y = -\frac{1}{6}x + 3$

slope = $-\frac{1}{6}$, y-intercept = 3

02) $y = \frac{7}{8}x - 10$

slope = $\frac{7}{8}$, y-intercept = -10

03) $y = -x + 5$

slope = -1, y-intercept = 5

04) $y = 9 + \frac{1}{2}x$

slope = $\frac{1}{2}$, y-intercept = 9

05) $y = 2x - 2$

slope = 2, y-intercept = -2

06) $y = \frac{4}{5}x$

slope = $\frac{4}{5}$, y-intercept = 0

07) $y = -9x + 8$

slope = -9, y-intercept = 8

08) $y = 13$

slope = 0, y-intercept = 13

Part II: Write the slope-intercept form equation for each line given its slope and y-intercept:

09) slope = -1, y-intercept = 7

$y = -x + 7$

10) slope = $\frac{3}{7}$, y-intercept = -4

$y = \frac{3}{7}x - 4$

11) slope = 6, y-intercept = 0

$y = 6x$

12) slope = $-\frac{1}{8}$, y-intercept = -8

$y = -\frac{1}{8}x - 8$

13) slope = $\frac{5}{6}$, y-intercept = -1

$y = \frac{5}{6}x - 1$

14) slope = 10, y-intercept = 5

$y = 10x + 5$

15) slope = 0, y-intercept = -9

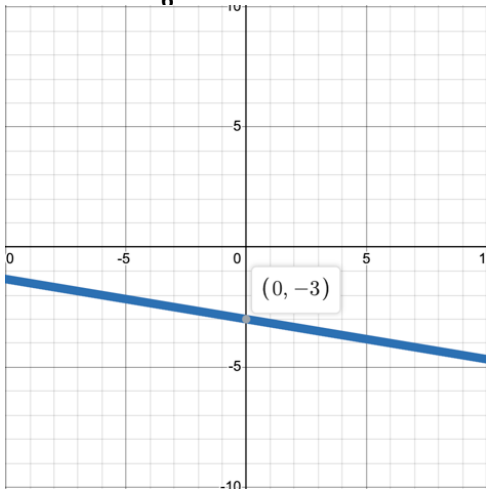
$y = -9$

16) slope = $-\frac{5}{12}$, y-intercept = -11

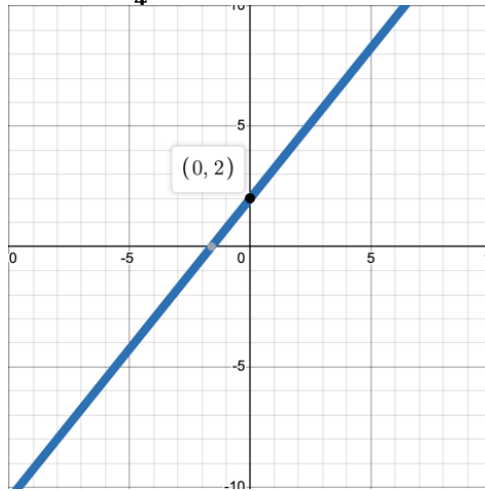
$y = -\frac{5}{12}x - 11$

Part III: Sketch the graph of each equation on the graph provided.

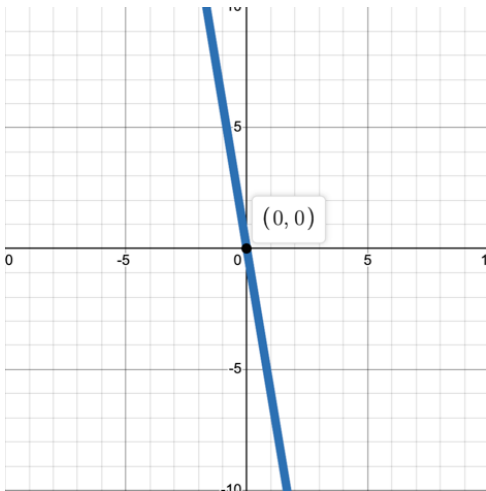
17.) $y = -\frac{1}{6}x - 3$



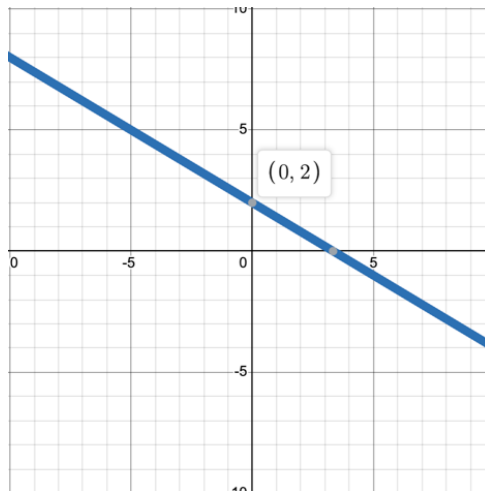
18.) $y = \frac{5}{4}x + 2$



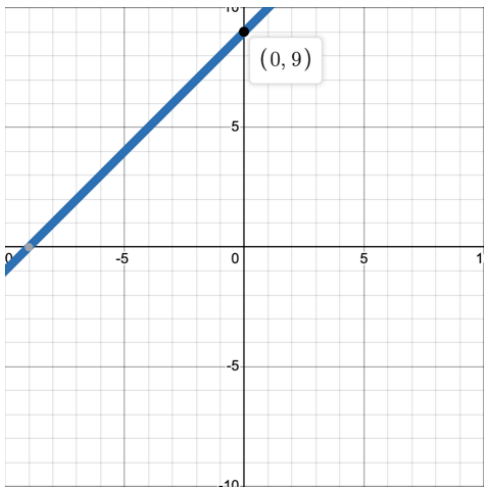
19.) $y = -6x$



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



21.) $y = x + 9$



22.) $y = -3$

