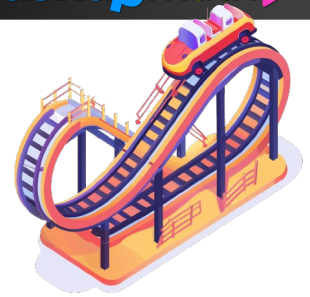


Name: _____

Practice with Slope-Intercept Form (A)



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) $y = 3x - 9$

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

02) $y = \frac{1}{3}x + 3$

06) $y = x - 2$

03) $y = -x + 16$

07) $y = 8$

04) $y = -\frac{5}{8}x - 11$

08) $y = -\frac{2}{7}x - 4$

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

09) slope= 4, y-intercept= -6

13) slope= $\frac{6}{7}$, y-intercept= -1

10) slope= $-\frac{1}{2}$, y-intercept=10

14) slope= 9, y-intercept= 0

11) slope= -1, y-intercept= 5

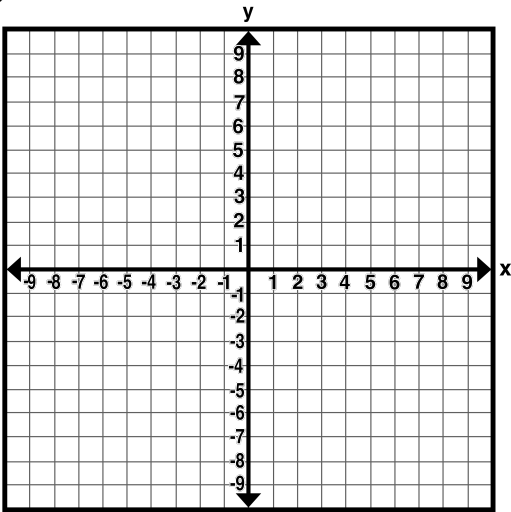
15) slope= $-\frac{4}{3}$, y-intercept= 7

12) slope= 2, y-intercept= 7

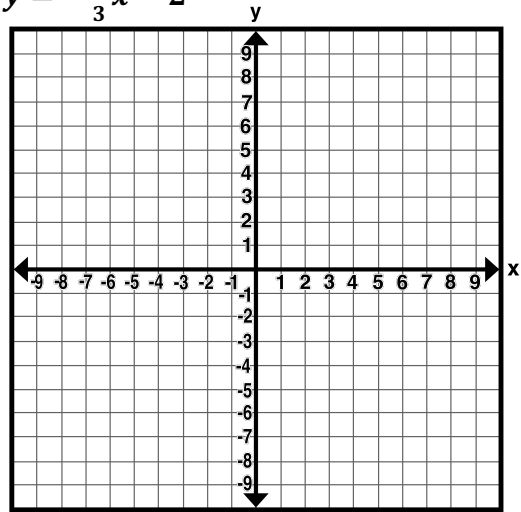
16) slope= 0, y-intercept= -5

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

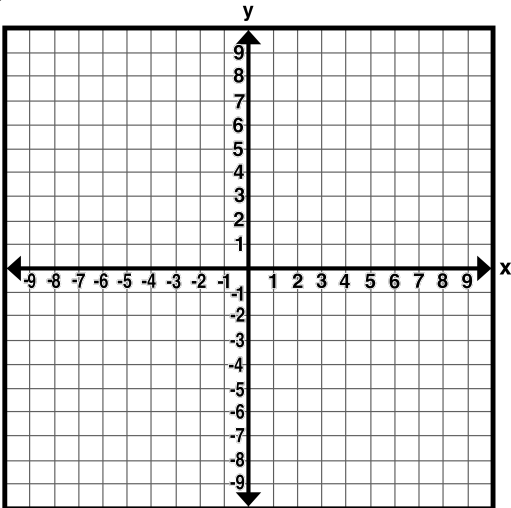
17.) $y = 4x + 1$



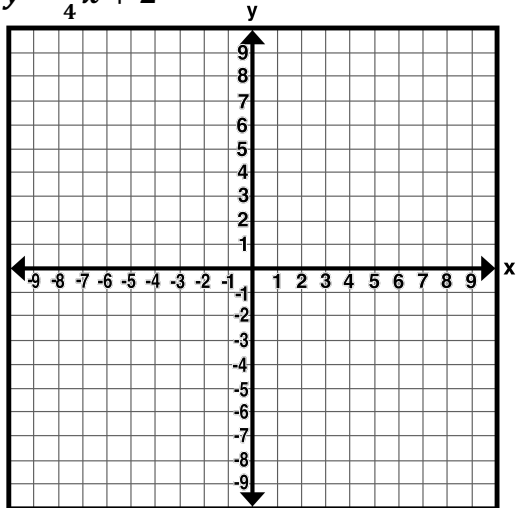
18.) $y = -\frac{1}{3}x - 2$



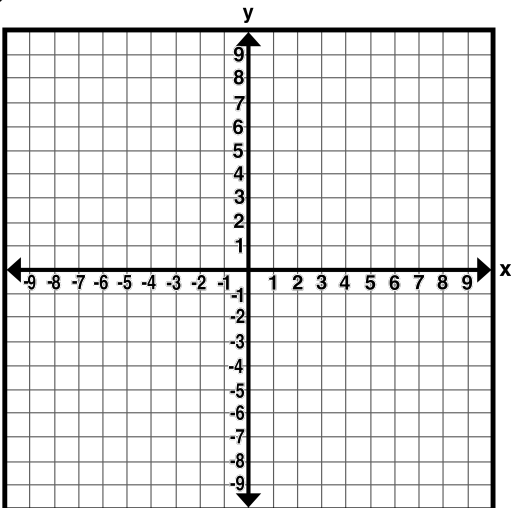
19.) $y = 5x - 5$



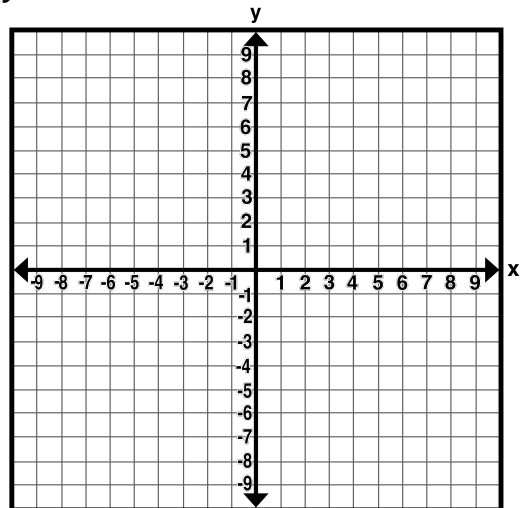
20.) $y = \frac{3}{4}x + 2$



21.) $y = -x - 6$



22.) $y = 7$



ANSWER KEY

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

01) $y = 3x - 9$
slope= 3, y-intercept= -9

02) $y = \frac{1}{3}x + 3$
slope= $\frac{1}{3}$, y-intercept= 3

03) $y = -x + 16$
slope= -1, y-intercept= 16

04) $y = -\frac{5}{8}x - 11$
slope= $-\frac{5}{8}$, y-intercept= -11

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

06) $y = x - 2$
slope= 1, y-intercept= -2

07) $y = 8$
slope= 0, y-intercept= 8

08) $y = -\frac{2}{7}x - 4$
slope= $-\frac{2}{7}$, y-intercept= -11

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

09) slope= 4, y-intercept= -6
 $y = 4x - 6$

10) slope= $-\frac{1}{2}$, y-intercept=10
 $y = -\frac{1}{2}x + 10$

11) slope= -1, y-intercept= 5
 $y = -x + 5$

12) slope= 2, y-intercept= 7
 $y = 2x + 7$

13) slope= $\frac{6}{7}$, y-intercept= -1
 $y = \frac{6}{7}x - 1$

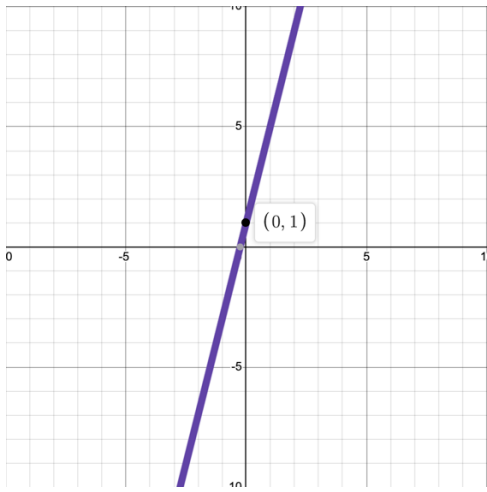
14) slope= 9, y-intercept= 0
 $y = 9x$

15) slope= $-\frac{4}{3}$, y-intercept= 7
 $y = -\frac{4}{3}x + 7$

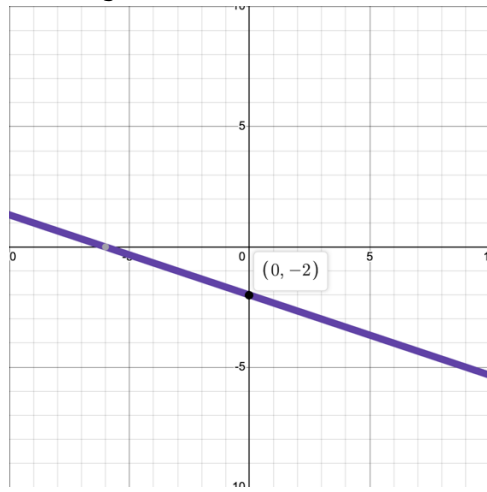
16) slope= 0, y-intercept= -5
 $y = -5$

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

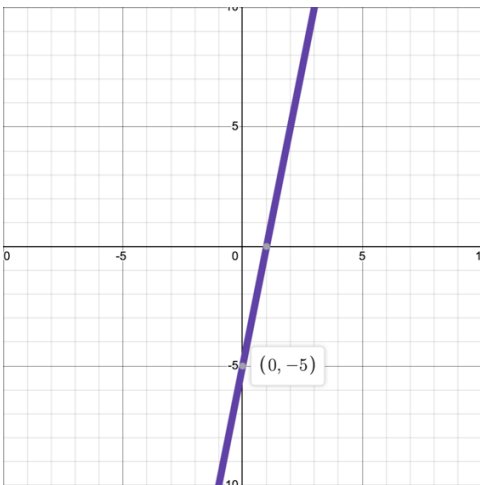
17.) $y = 4x + 1$



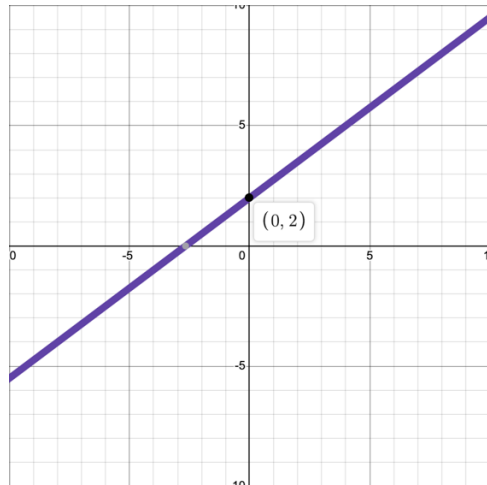
18.) $y = -\frac{1}{3}x - 2$



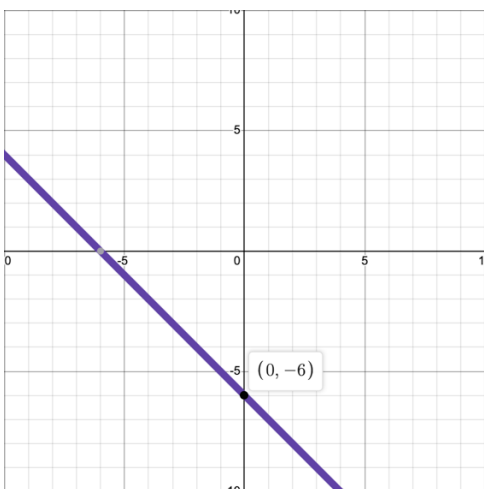
19.) $y = 5x - 5$



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



21.) $y = -x - 6$



22.) $y = 7$

