


Name: _____

Practice with Slope-Intercept Form (B)

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) $y = 8x + 8$

05) $y = -1$

02) $y = -\frac{3}{4}x + 1$

06) $y = 2x - 4$

03) $y = x - 13$

07) $y = \frac{7}{9}x - 11$

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

08) $y = 5 - \frac{1}{4}x$

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

09) slope = -8 , y-intercept = 5

13) slope = $-\frac{3}{5}$, y-intercept = -9

10) slope = $-\frac{2}{3}$, y-intercept = -1

14) slope = 0 , y-intercept = 12

11) slope = 1 , y-intercept = 1

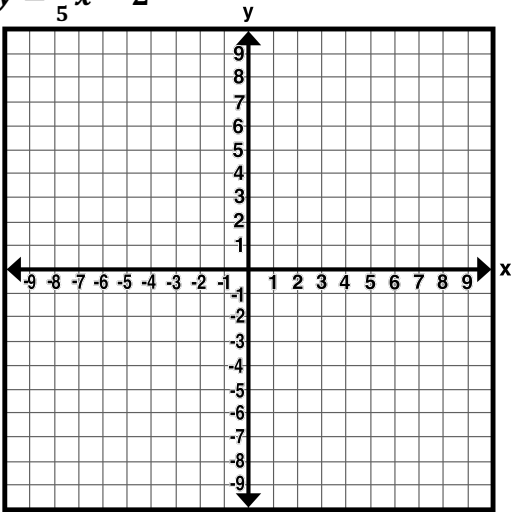
15) slope = $\frac{7}{5}$, y-intercept = 14

12) slope = -7 , y-intercept = 0

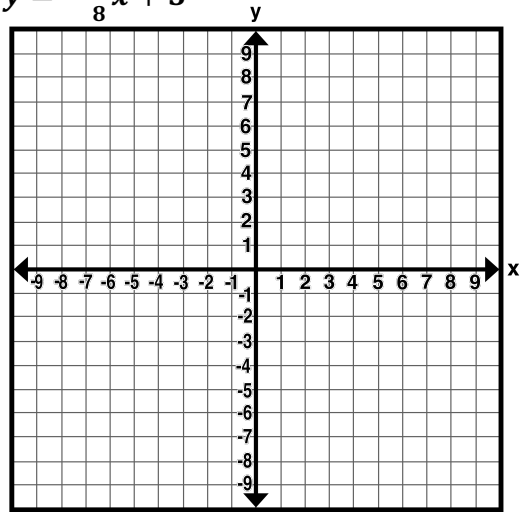
16) slope = -12 , y-intercept = 6

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

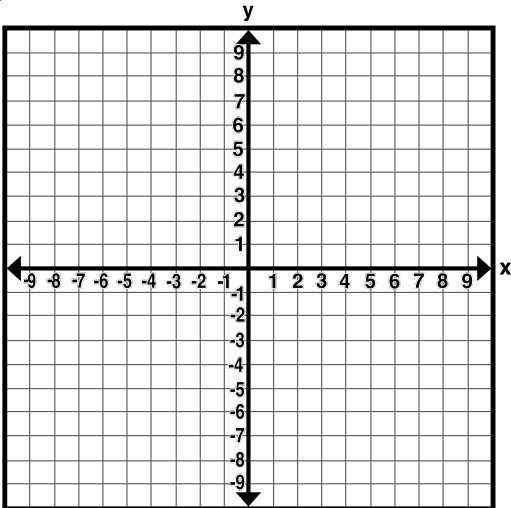
17.) $y = \frac{4}{5}x - 2$



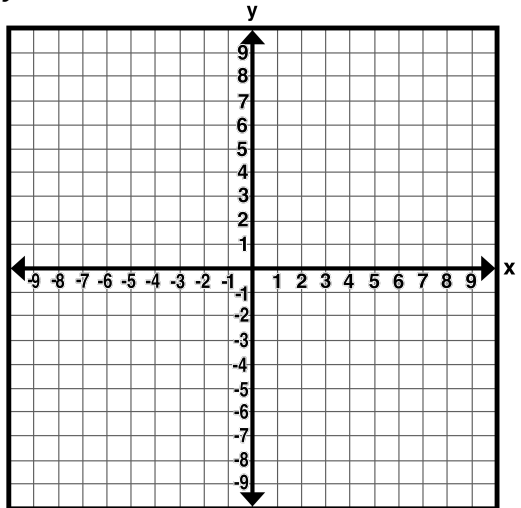
18.) $y = -\frac{1}{8}x + 3$



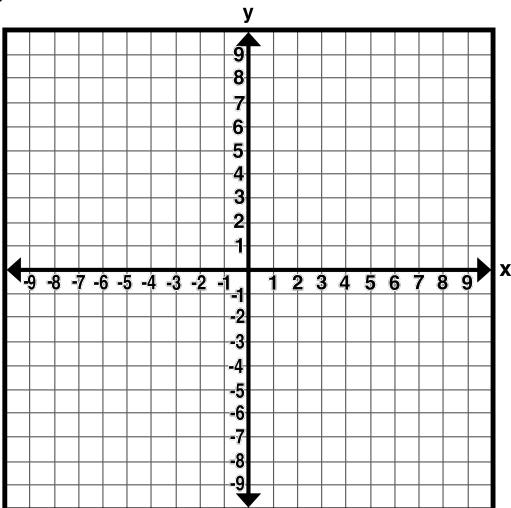
19.) $y = 6x - 3$



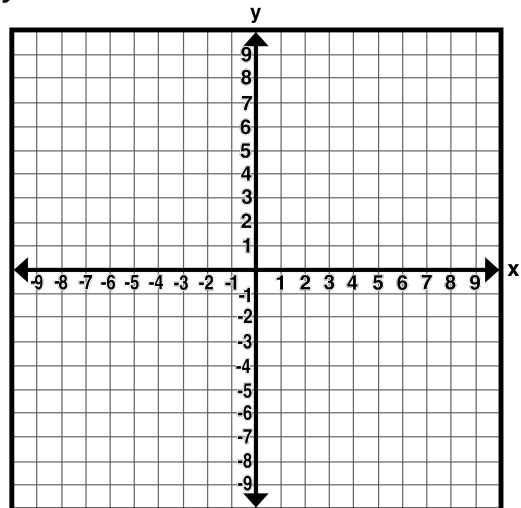
20.) $y = -x + 8$



21.) $y = x - 7$



22.) $y = 5x$



ANSWER KEY

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

01) $y = 8x + 8$
slope= 8, y-intercept= 8

05) $y = -1$
slope= 0, y-intercept= -1

02) $y = -\frac{3}{4}x + 1$
slope= $-\frac{3}{4}$, y-intercept= 1

06) $y = 2x - 4$
slope= 2, y-intercept= -4

03) $y = x - 13$
slope= 1, y-intercept= -13

07) $y = \frac{7}{9}x - 11$
slope= $\frac{7}{9}$, y-intercept= -11

04) $y = \frac{2}{3}x - 6$
slope= $\frac{2}{3}$, y-intercept= -6

08) $y = 5 - \frac{1}{4}x$
slope= $-\frac{1}{4}$, y-intercept= 5

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

09) slope= -8, y-intercept= 5
 $y = -8x + 5$

13) slope= $-\frac{3}{5}$, y-intercept= -9
 $y = -\frac{3}{5}x - 9$

10) slope= $-\frac{2}{3}$, y-intercept= -1
 $y = -\frac{2}{3}x - 1$

14) slope= 0, y-intercept= 12
 $y = 12$

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

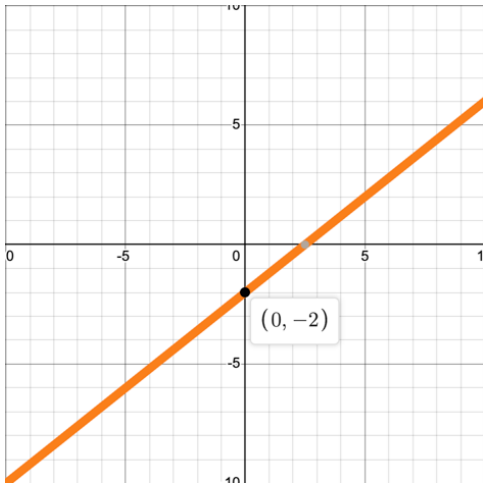
15) slope= $\frac{7}{5}$, y-intercept= 14
 $y = \frac{7}{5}x + 14$

12) slope= -7, y-intercept= 0
 $y = -7x$

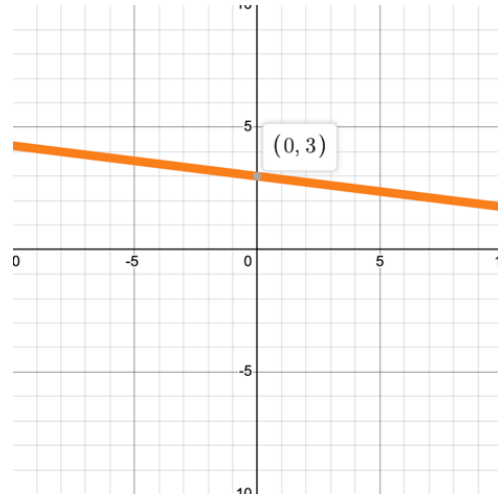
16) slope= -12, y-intercept= 6
 $y = -12x + 6$

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

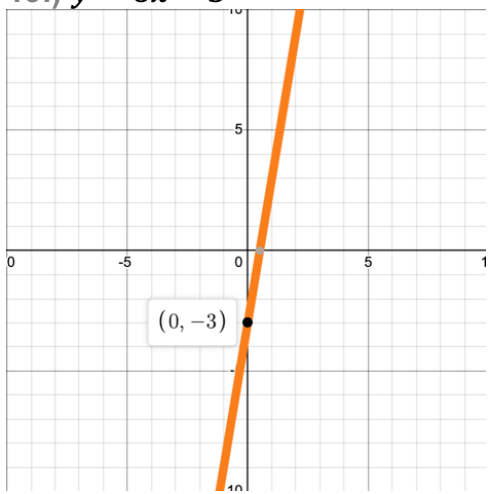
17.) $y = \frac{4}{5}x - 2$



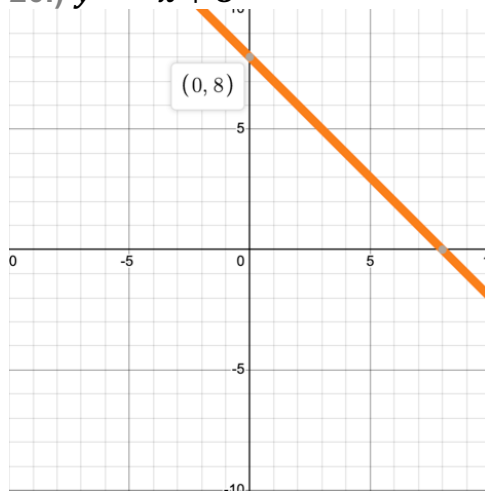
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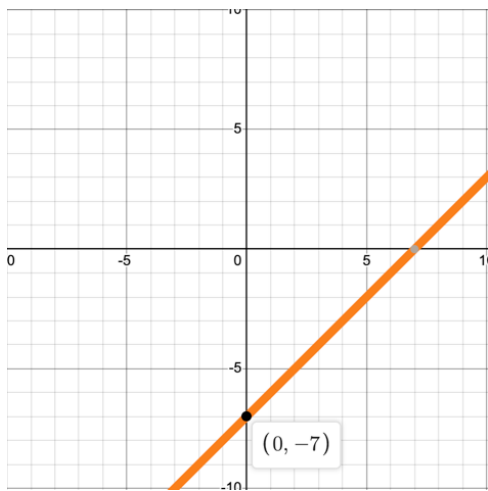
19.) $y = 6x - 3$



20.) $y = -x + 8$



21.) $y = x - 7$



22.) $y = 5x$

