2-3 Homework H-W Fall 2018

IM 3 — 2-3 Homework

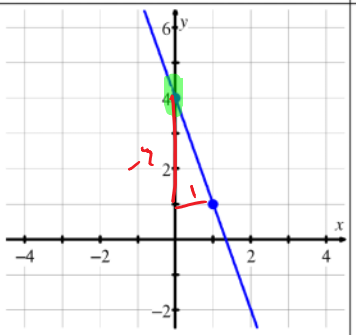
Name:_____ Per:_____ Date:_____

Show ALL work in the space provided. DO NOT just write an answer. You must show work or justify your answer to receive full credit.

1. What is the slope of the line that passes through the points $(-3, 7)$ and $(-2, 4)$ $m = -3$

2. What is the slope of the line that passes through the points $(5, -4)$ and $(5, 1)$ Undefined

3. Find the slope and y-intercept of the graph, then write an equation of the line.



$y = -3x + 4$

Slope = -3; y-intercept: $(0, 4)$

4. Write an equation of a line with slope $\frac{2}{5}$ and y-intercept $(0, -4)$.

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

Slope = _____; y-intercept: _____

5. Write the equation $5x - 4y = 16$ in slope-intercept form. What are the slope and the y-intercept?

$y = \frac{5}{4}x - 4$

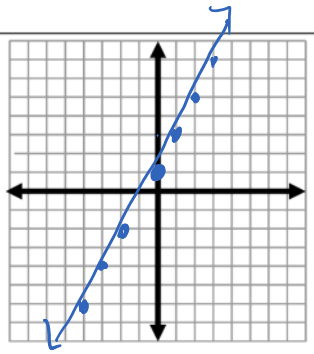
1) Add
2) Divide

6. Write the equation $-3x + 4y = 24$ in slope-intercept form. What are the slope and the y-intercept?

$y = \frac{3}{4}x + 6$

7. Graph $-2x + y = 1$. Make your graph neat.

$y = 2x + 1$

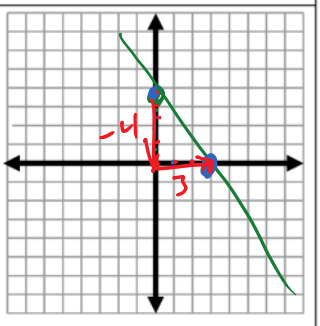


Slope = $\frac{2}{1}$

y-intercept: $(0, 1)$

8. Graph $4x + 3y = 12$. Make your graph neat.

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



Slope = $-\frac{4}{3}$

y-intercept: $(0, 4)$

$x = 0$ $y = 0$

$4x + 3y = 12$

$4x = 12$

$x = 3$

$3y = 12$

$y = 4$

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