

Lesson #2: Slope Intercept Form (part 2) -- Notes

Date: _____

Recall that the slope intercept form is $y = mx + b$, where m is the slope of the line and b is the y-intercept. In today's lesson, we are going to focus on creating the equation of a line given various pieces of information.

For all the following examples, create $y = mx + b$.

1. $m = \frac{4}{3}$ and $b = -8$

2. $m = -7$ and $(0, 5)$

3. $m = \frac{-3}{5}$ and $(10, 6)$

4. $m = \frac{2}{7}$ and $(-2, 3)$

5. $(-3, 3)$ and $(-2, 5)$

6. $(-4, 5)$ and $(5, 2)$

7. Create the equation of a line which has the same slope as $4x - 5y = -5$ and has the same y-intercept as $3y + 5x - 9 = 0$.

8. Create the equation of a line which has the same slope as $8 - 3y = 7x$ and has the same y-intercept as $5x + 2y = 3$.

Horizontal and Vertical Lines: Given the graph, determine the equation of the line:

