Graphing Slope-Intercept by Inspection

y = mx + b

Algorithm

- **1.** Identify the y_{int} (b) and plot
- 2. From the y_{int}, use the slope (m) to find second point
- 3. **Draw a line through the two points**

Example:		Graph $y = 2x + 1$
	1.	The y_{int} is $1 - (0, 1)$
	2.	$m = 2 = \frac{2}{1}$, from (0, 1) go up 2 over 1 (1, 3)
	3.	Draw line through (0, 1) and (1, 3)

Use the Slope Intercept form of a line to graph the following by inspection

- 1. Graph and find the y-intercept and the slope of y = 2x + 3
- 2. Graph and find the y-intercept and slope of the y = 3x 2
- 3. Graph and find the y-intercept and slope of y = -2x + 4
- 4. Graph and find the y-intercept and slope of y = -3x 2

5. Graph and find the y-intercept and slope of
$$y = \frac{2}{3}x + 4$$

6. Graph and find the y-intercept and slope of
$$y = \frac{-2}{5}x + 4$$

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- 7. Graph and find the y-intercept and slope $y = \frac{-2}{5}x 1$
- 8. Write the following equation in slope-intercept form, 3x + y = 8
- 9. Write the following equation in slope-intercept form, 5x + y = -7
- 10. Write the following equation in slope-intercept form, 3x - y = 4
- 11. Write the following equation in slope-intercept form, x + y = 7
- 12. Write the following equation in slope-intercept form, x - y = 7
- 13. Write the following equation in slope-intercept form, 4x + 2y = 8