**Graphing lines using y = mx + b**

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| Linear equation **y = mx + b** |
| **y** | **m** | **x** | **b** |
|  |  \_\_\_\_\_\_\_\_\_ =$ \frac{ }{}$ |  |  |
| **Graphing using the slope and y-intercept**: |  | m = \_\_\_\_\_\_\_\_\_ | b = \_\_\_\_\_\_\_\_\_ |
| 1. Start
 | **[image]** |
| 1. Use

(+) RISE🡪 move up(-) RISE 🡪move down |
| 1. Repeat
 |
| 1. Draw
 |
| Example 2**y = -3x + 6**m = \_\_\_\_\_\_ b = \_\_\_\_\_\_If “*m*” is an integer, **make it a fraction** by putting it over 1. | **[image]** |

**Identify the slope (m) and y-intercept (b) of the following lines then graph.**

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| 1) y = -3x + 4 m= \_\_\_\_\_ b = \_\_\_\_\_**[image]** | **[image]**2) y = ½ x -5 m= \_\_\_\_\_ b = \_\_\_\_\_ |
| 3) y = 2x + 2 m= \_\_\_\_\_ b = \_\_\_\_\_[image] | 1. [image]y = $\frac{-2}{3}$x + 1 m= \_\_\_\_\_ b = \_\_\_\_\_
 |
| 5) y = 2x m= \_\_\_\_\_ b = \_\_\_\_\_  **No y-intercept?** Make it \_\_\_\_\_\_\_\_\_**[image]** | 6) y = 5 m= \_\_\_\_\_ b = \_\_\_\_\_ **No Slope?** Make it \_\_\_\_\_\_\_\_\_\_\_\_\_**[image]** |