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

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| Linear equation  **y = mx + b** | | | | |
| **y** | **m** | | **x** | **b** |
|  | \_\_\_\_\_\_\_\_\_ = | |  |  |
| **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 = 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]** |