**ML #6 - Writing Equations and Graphing in Slope-Intercept Form (Proportional Unit - Math 7+)**

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| **Slope-Intercept Form: y = mx + b**  **x and y are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (x, y) is any point that is on the line of the given equation.**  **m is the \_\_\_\_\_\_\_\_\_\_\_\_\_. \_\_\_\_\_\_\_\_\_\_\_\_\_ can be defined as \_\_\_\_\_\_\_\_\_\_\_\_\_\_.**  **b is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**  **b is where the line intersects the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.** |

* **Write each linear equation in slope-intercept form and then graph it.**

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| 1. m =  b = (0 , -4)  Equation:  [image]  Graph: | 2. m =  b = (0 , 3)  [image] Equation:  Graph: |
| [image]3. m =  b = (0 , 6)  Equation:  Graph: | [image]  4. m =  b = (0 , -3)  Equation:  Graph: |

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| 5. m = –1 b = (0 , 4)  Equation:  [image]  Graph: | 6. Equation:  m = b =  [image]  Graph: |
| 7. Graph  [image] m = b = | 8. Equation:  [image] m = b = |
| 9. Equation:  m = b =  [image] | 10. Equation:  m = b =  [image] |