**Lesson 5.1 – Writing Linear Equations from Graphs and Word Problems**

*\*Prior Knowledge:*

* Slope/Rate of Change - $\frac{rise}{run}$ ; $\frac{y\_{2- y\_{1}}}{x\_{2}- x\_{1}}$
* Y-intercept – (0,b) ; where the line hits the “y-axis” (Vertical line from Origin)

***\*See graph on board (p. 125)\****

* **Writing an equation from a graph:**
1. Find the Slope – pick 2 coordinate points on the graph and find the slope either by formula or $\frac{rise}{run}$
2. Find the y-intercept – where the line hits the “y-axis” or the value when “x” is 0

Ex: (p. 128 - #3)

 *Insert slope, y-intercept, and slope intercept formula*

* **Writing an equation from a word problem**:
1. Find the Slope – use the information to determine what is attached to each input value.
2. Find the y-intercept – the initial value/one-time value.

Ex: (p. 129 - #5)

 *Insert slope, y-intercept, and slope intercept formula*