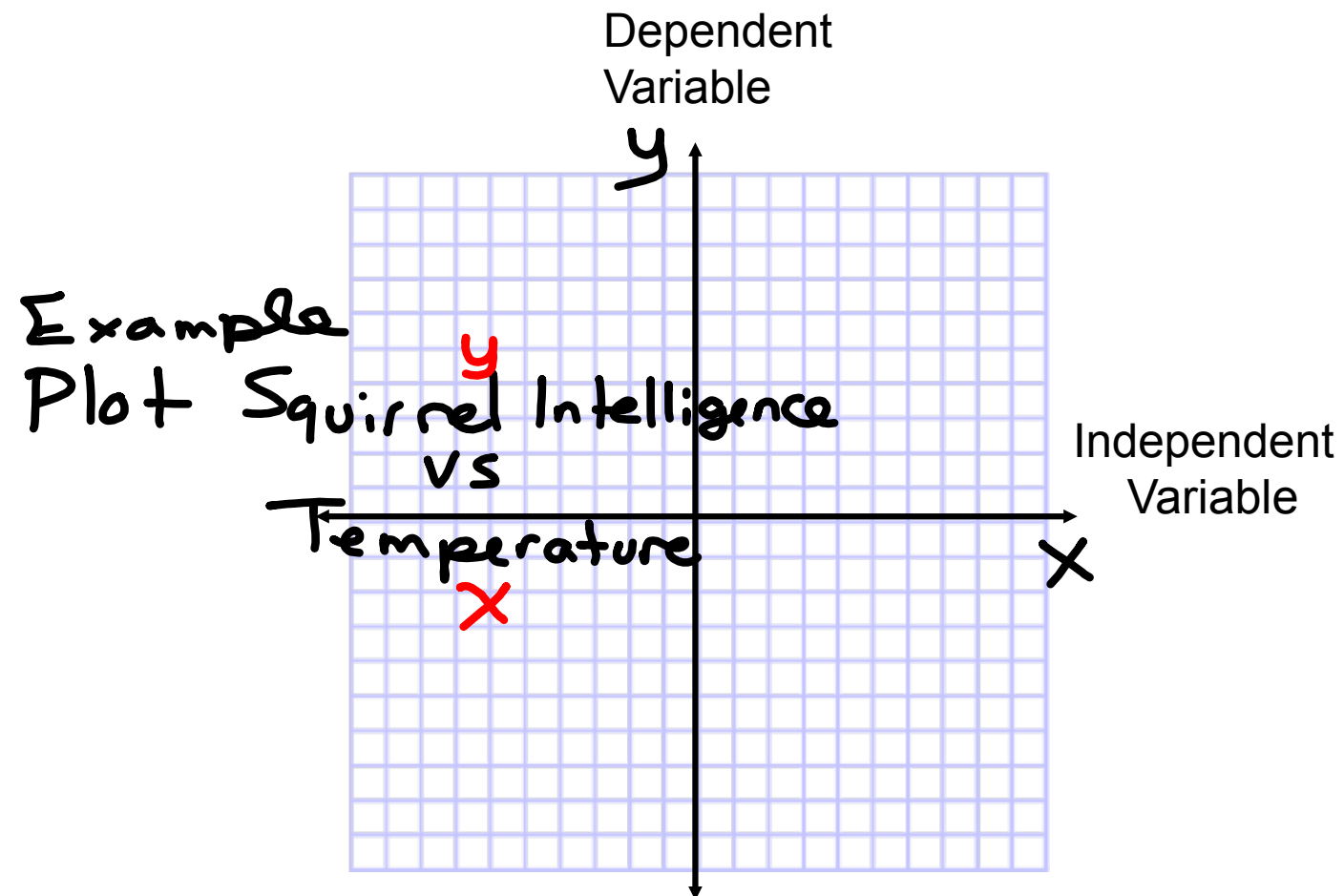


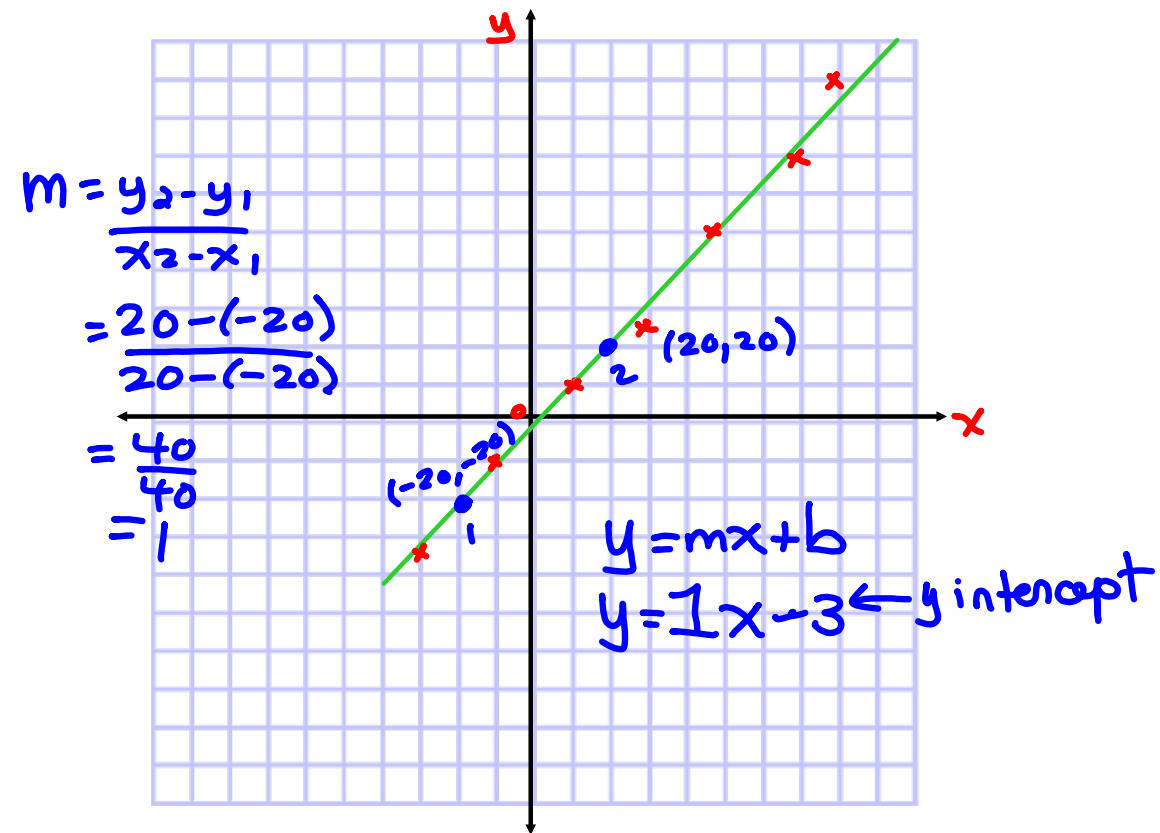
Graphing Data

Data can be displayed quickly and accurately using a graph. Some points to consider when making a "good" graph are;

- ~ always use easy scaling factors i.e. 1,2, 5, 10
- ~ make the graphs large and easy to read
- ~ use a ruler
- ~ label graphs properly with axis titles and main title *with units*
- ~ use small x's to mark the points.
- ~ once your graph is perfect go over it with a fine tipped marker. Your graph is a permanent record of your results.



Line of Best Fit and Equation of Lines



To find the equation of the line of best fit we must choose two points on the line a fair distance away from each other. With those two points determine the slope and the equation of the line using the point slope form of a linear equation.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$y - y_1 = m(x - x_1)$$