## GRADE 11 ESSENTIAL UNIT F - GRAPH LINES - SLOPE INTERCEPT With a t-table Date: \_\_\_\_\_

Graph the lines for the linear equations that are given in slope and intercept form. Use the t-table *if necessary*. Check with a graphing tool on your phone if you want.

1. Graph the line y = 3x

2. Graph the line y = 12 - 6x

1









9. Graph the line y = -6 and y = 0.3x + 5





11. The form y = mx + b is a **standard form** for a line. The 'm' will be a value that is the slope of the line. The **b** will be a value where the **x** is zero and the line crosses the **y**-axis.

So for example y = 2x + 6; the line crosses at the **y**-intercept point (0, 6) and rises a slope of 2 up for every step of 1 to the right.  $\frac{\Delta y}{\Delta x} = \frac{2}{1} = 2$ 

12. Of course your phone or laptop or tablet does all these too! (and more) Try using the graphing tool at Desmos.com in your browser Or try using the DESMOS App available on apple and Android Or try using any of several graphing tools on line Or try using a spreadsheet on your phone, or tablet, or laptop Or try using your favourite app that you download

