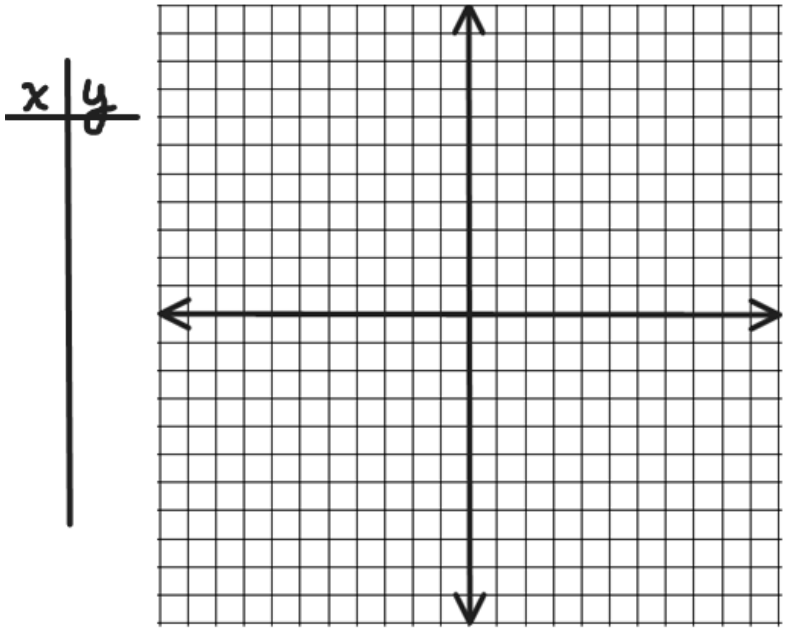
GRADE 11 ESSENTIAL
UNIT F – GRAPH LINES – SLOPE INTERCEPT

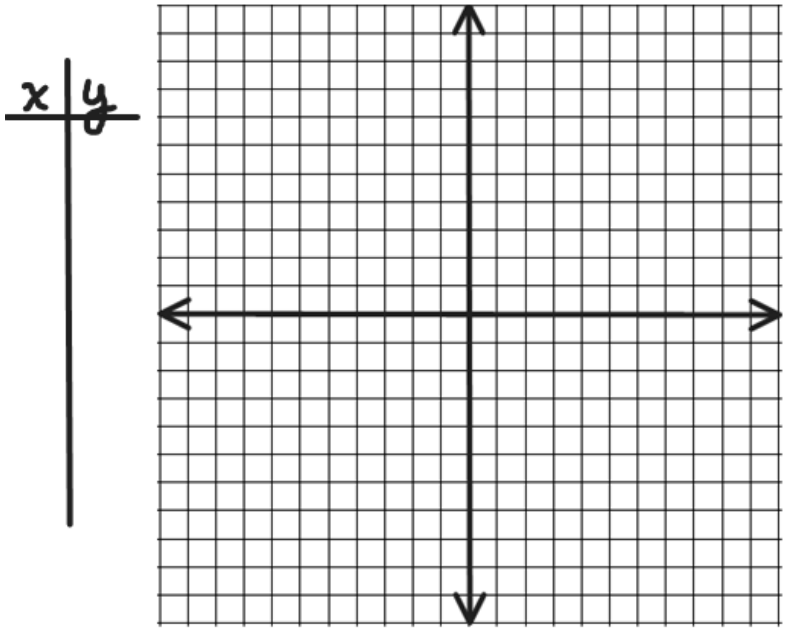
Name:_____
Date: _____

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 $y = 2x$

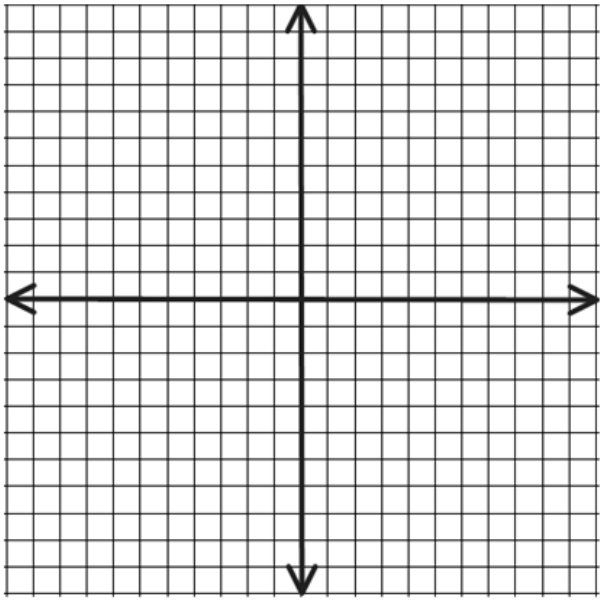


2. Graph the line $y = -2x + 3$



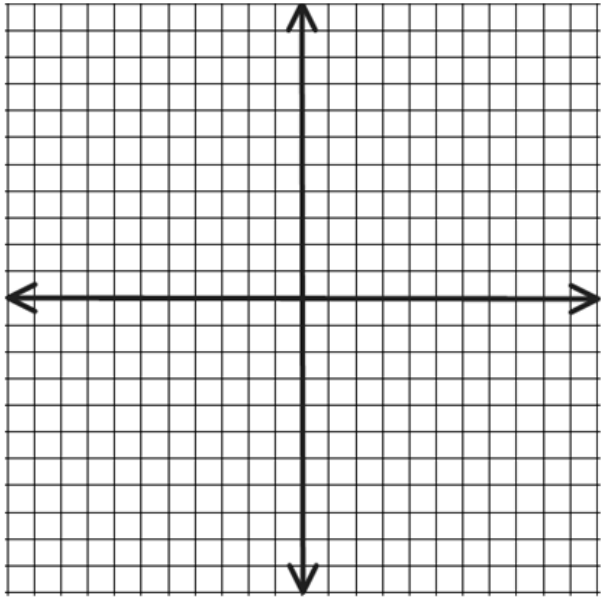
3. Graph the line y = ½*x or $\frac{x}{2}$

x	y



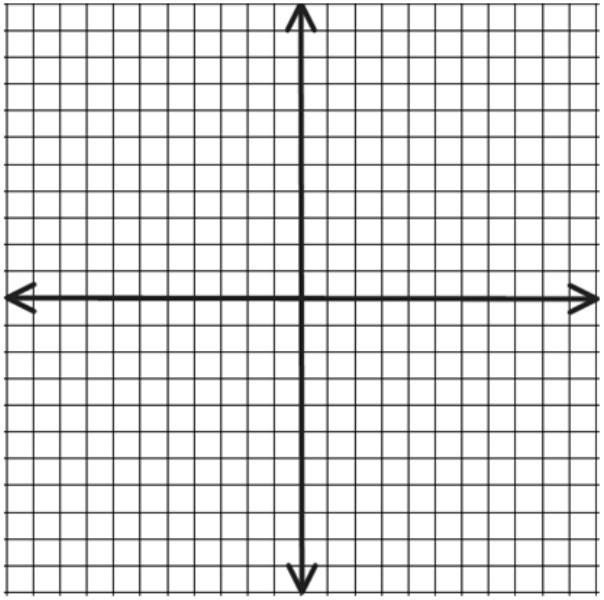
4. Graph the line y = 0.5x – 4

x	y



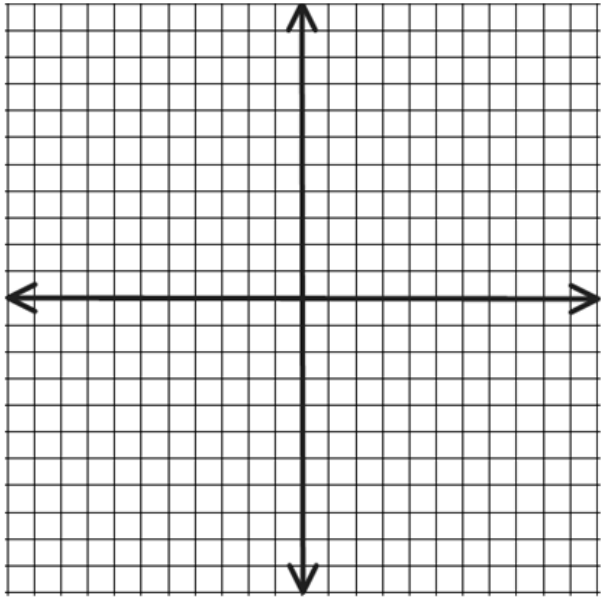
5. Graph the line y = 1/4*x or $\frac{x}{4}$

x	y

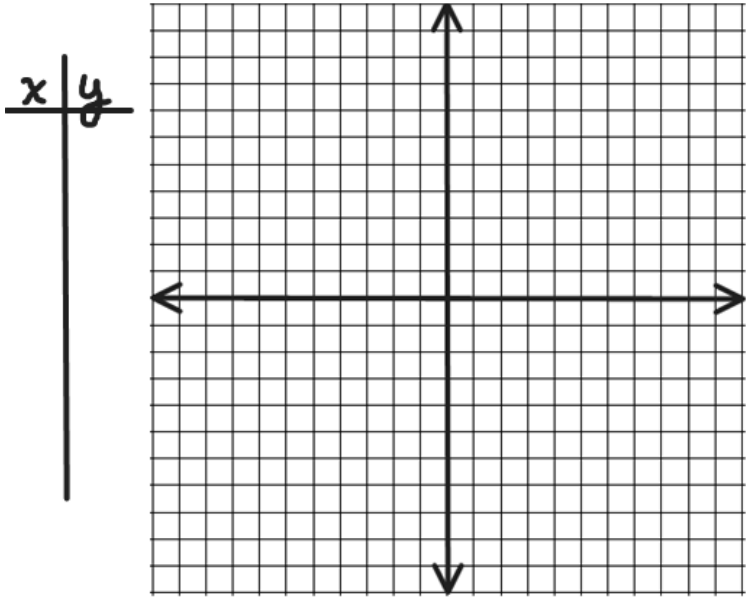


6. Graph the line y = $\frac{3}{5}x + 2$

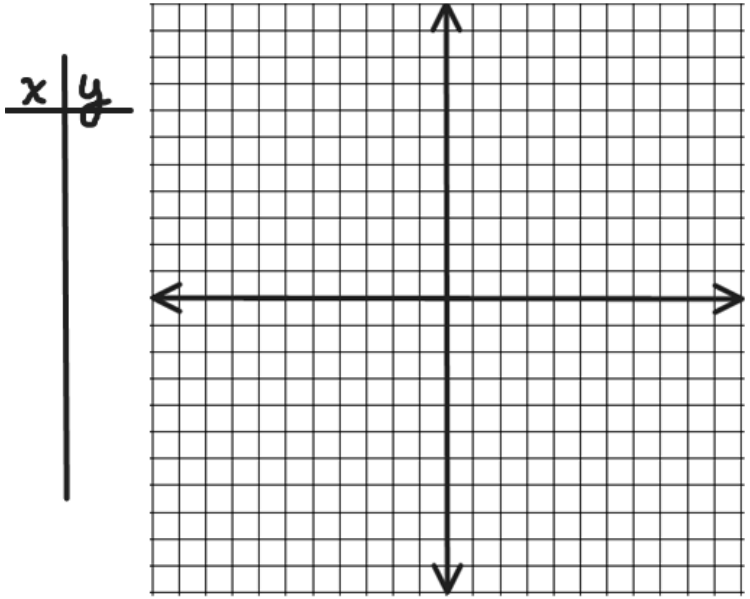
x	y



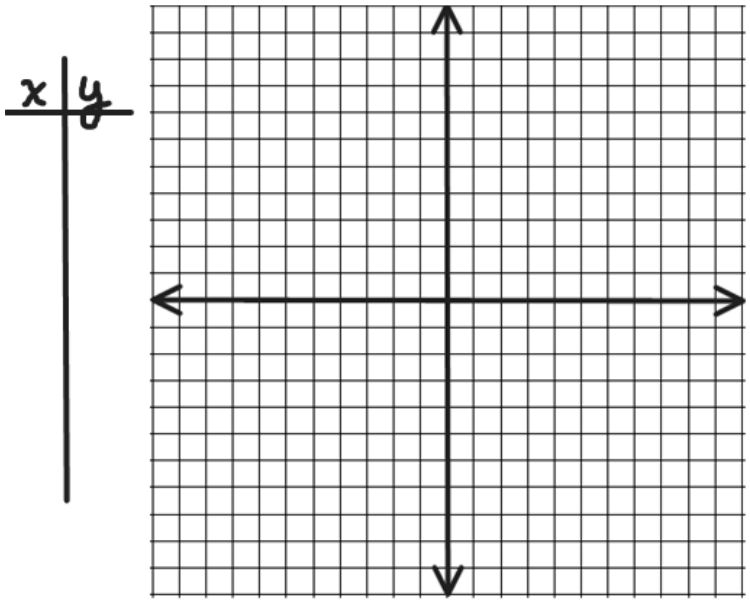
7. Graph the line y = 2/3*x + 5



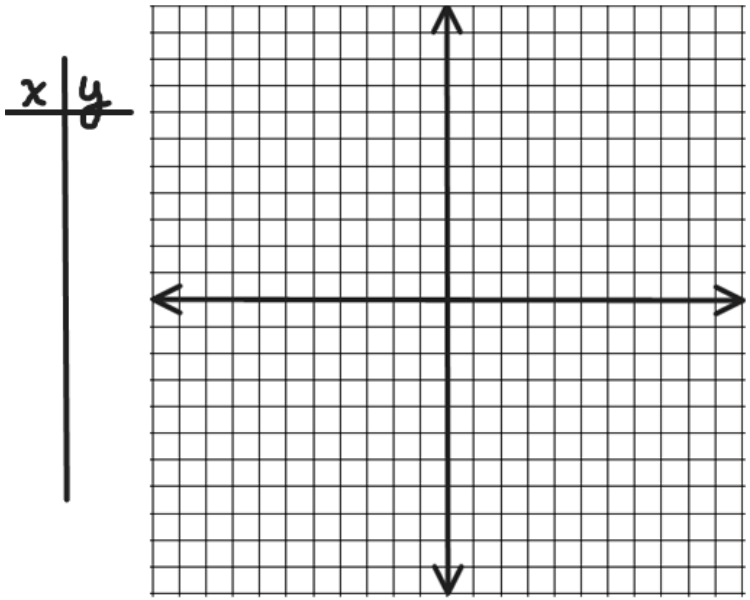
8. Graph the line y = ⁻0.6x – 6



9. Graph the line y = $\frac{1}{3}x - 5$



10. Graph the line y = $-3.2x + 6$



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 the x is zero and the line crosses the y axis.
So for example $\boldsymbol{y = 2x + 6}$; 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