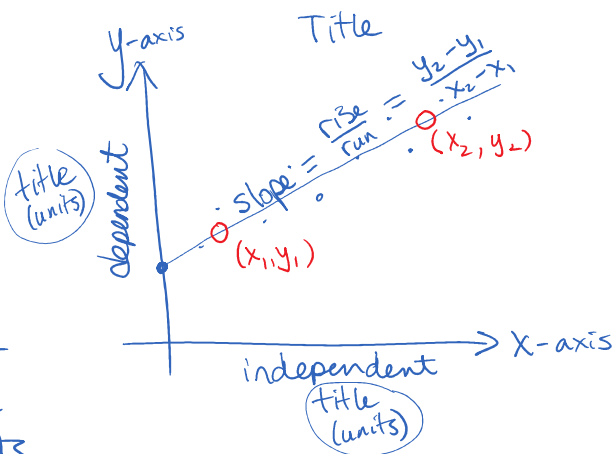
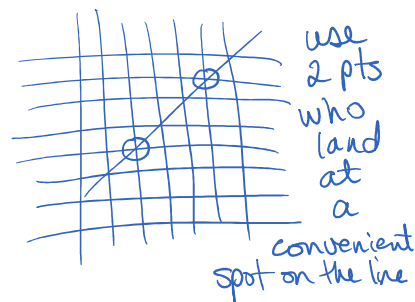


Graphs



(x_1, y_1) and (x_2, y_2) are not points from the table of values (unless they fall exactly on the line)

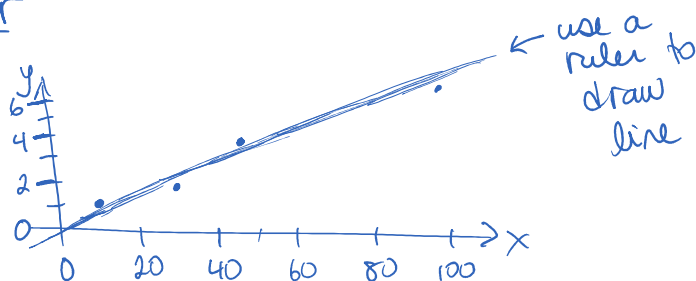
- draw a best fit line, has equal spacing of points above and below the line.



- when numbering the axis, do not use values from table of values; you should evenly space your numbers

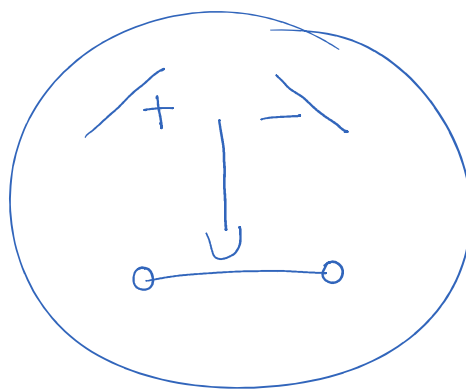
- use most of the graph paper

x	y
10	1
30	2
45	3.5
100	6



$$y = mx + b$$

\uparrow slope \uparrow y-intercept



Solving

Best Friends Share Dessert

\uparrow Brackets \uparrow fractions \uparrow sort \uparrow Divide

ex 1

$$3(2x+2) - 4x = 2 - x$$

Solve for x

$$1 \dots + 6 - 4x = 2 - x$$

ex 1

$\Delta(x \wedge t \sim)$

$$B: \quad \underline{6x} + \underline{6} \quad \xrightarrow{\quad} \quad \underline{-4x} = \underline{2 - \cancel{x}} \quad \xrightarrow{\quad} \quad \underline{-6} \quad \xrightarrow{\quad} \quad \underline{+x}$$

$$S: \quad 2x + x = 2 - 6$$

$$D: \quad \frac{3x}{3} = \frac{-4}{3}$$

$$X = -\frac{4}{3}$$

x-terms to one side
#-terms to other

ex 2 solve for "a"

OR

$$F: \quad (d = v_i t + \frac{1}{2} a t^2) \times 2$$

$$2d = 2v_i t + a t^2$$

$$S: \quad \frac{2d - 2v_i t}{t^2} = \frac{a t^2}{t^2}$$

$$D: \quad \frac{2d - 2v_i t}{t^2} = a$$

$$d = v_i t + \frac{1}{2} a t^2$$

$$d - v_i t = \frac{1}{2} a t^2$$

$$\frac{2(d - v_i t)}{t^2} = a$$

ex 3

A = ?

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$2^2 = 3^2 + 4^2 - 2(3)(4) \cos A$$

$$4 = 9 + 16 - \underline{24 \cos A}$$

$$4 = 25 - 24 \cos A$$

$$4 - 25 = -24 \cos A$$

$$+21 = \underline{-24 \cos A}$$

$$\frac{+21}{+24} = \frac{-24}{-24}$$

$$0. \dots = \cos A$$

$$\rightarrow \cos^{-1}(0. \dots) = 29^\circ$$

$$\begin{aligned} a &= 2 \\ b &= 3 \\ c &= 4 \end{aligned}$$