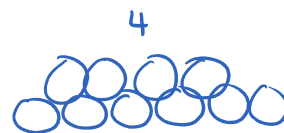
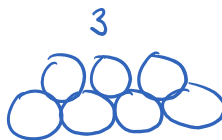
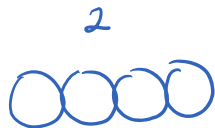


Chapter 6 Review

Creating an Equation

Figures



...

$d \cdot F$	F Fig#	# of circles
3	1	1
6	2	4
9	3	7
12	4	10

common difference = +3

+3

+3

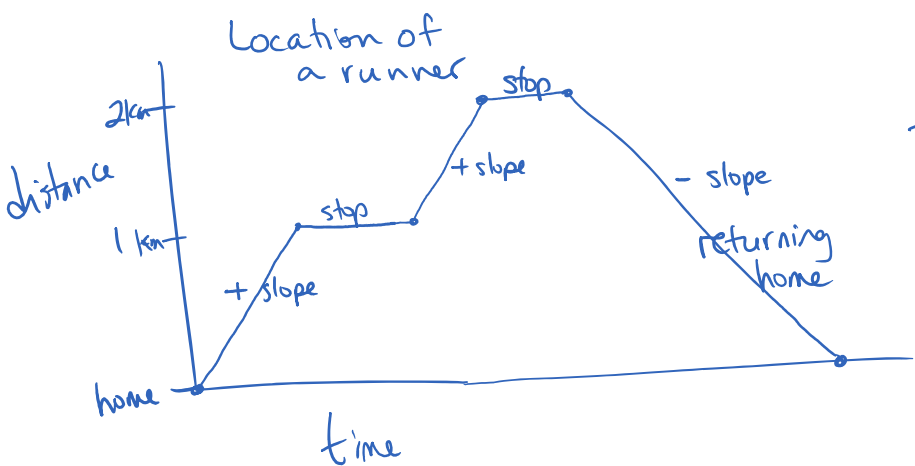
must be the same # for d

Equation: $3F - 2 = C$

this column must always increase by 1 to use this method.

Graphs

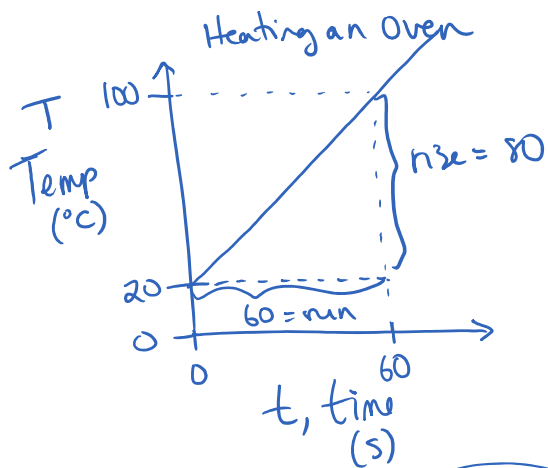
interpolation - estimate a point between 2 points on line
 extrapolation - " " " beyond the given points.



Interpreting

Heating an Oven
 100 ↑

Starting Temp is 20° (room temp)



Starting Temp is 20° (room temp)

$$y\text{-intercept} = 20^\circ = b$$

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{80^\circ}{60s} = 1.\bar{3}^\circ/s = m$$

★ $y = mx + b$

$T = 1.\bar{3}^\circ/s \cdot t + 20^\circ$

$\swarrow$
 $=$

$$1.3t + 20 = T$$

$1.3t$	t	T
0	0	20
1.3	1	#
2.6	2	#

Annotations: $+1.3^\circ$ (between rows), $+1.3^\circ$ (between rows), $+20$ (at the bottom, pointing to the y-intercept)

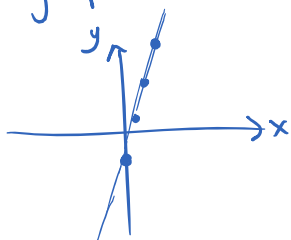
Equation to graph

① Create table of values

$$y = 3x - 2$$

x	y	
0	-2	$3(0) - 2$
1	1	$3(1) - 2$
2	4	$3(2) - 2$
3	7	$3(3) - 2$

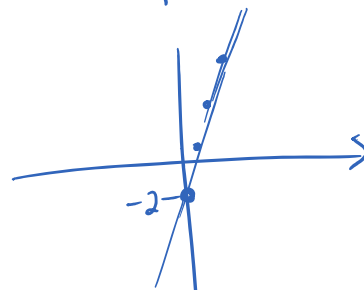
graph it



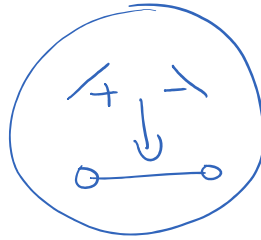
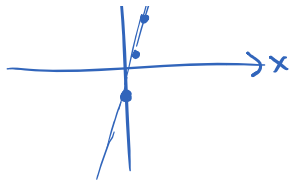
② use $y = mx + b$

$$y = 3x - 2$$

Annotations: $\uparrow$ slope $= \frac{3}{1}$, $\nwarrow$ y-int



plot y-intercept, then from there go up 3, over 1, ...



there go up 3, over 1, ...

Horizontal + Vertical lines

① What axis does it cross? ② Where does it cross?

