HOMEWORK REVIEW

Worksheet B

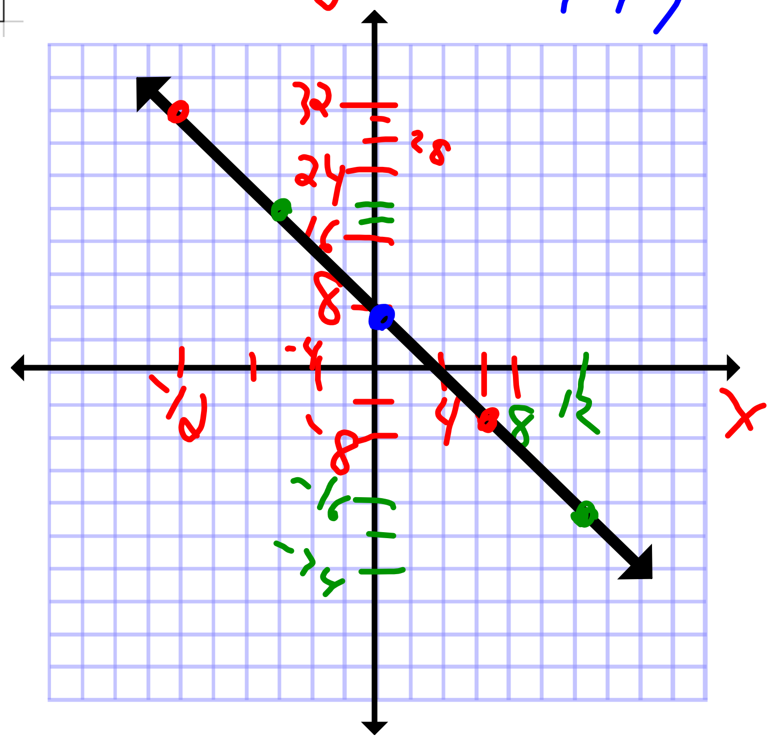
#2. g) $y = -2x + 7$

x	y = -2x+7
-12	y=-2(-12)+7=31
-6	19
0	7
6	-5
12	-17

(-12, 31)

(-6, 19)

(0, 7)



$$\text{Rate} = \frac{-2}{1} = -2$$

Worksheet B

#2 C

y=3x+4

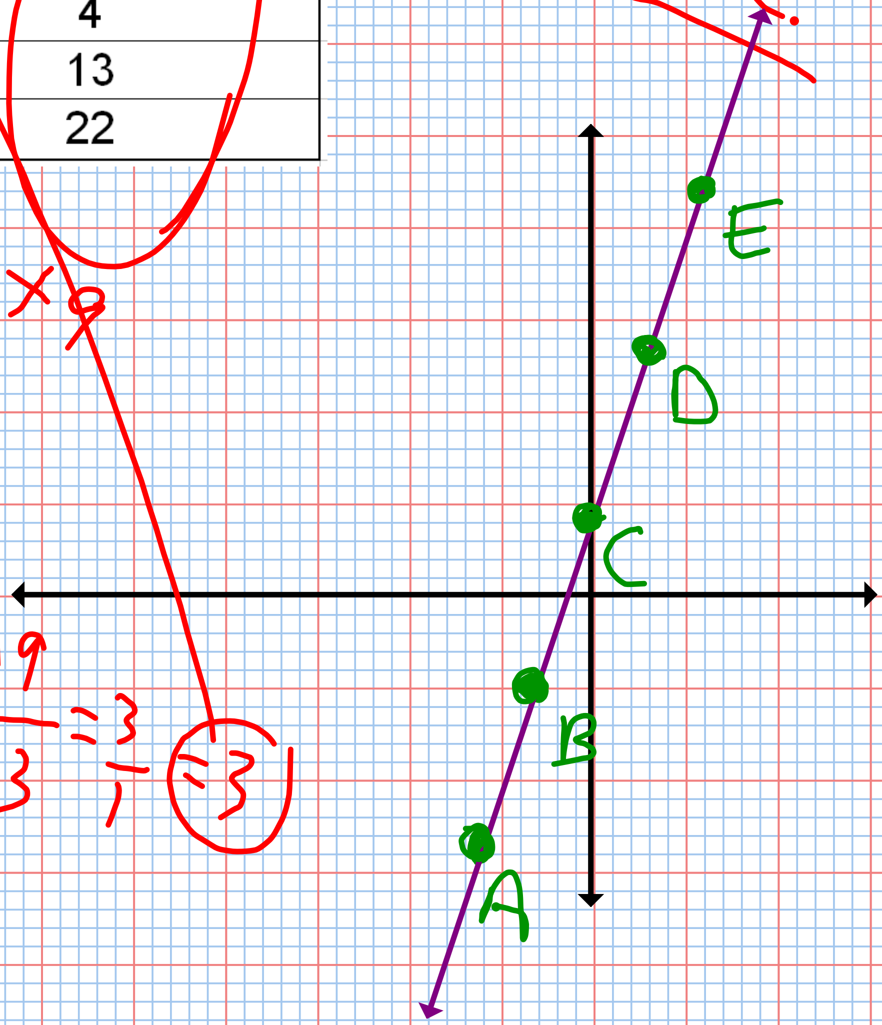
	x	y
A	-6	y=3(-6)+4=-14
B	-3	-5
C	0	4
D	3	13
E	6	22

×3 ×9

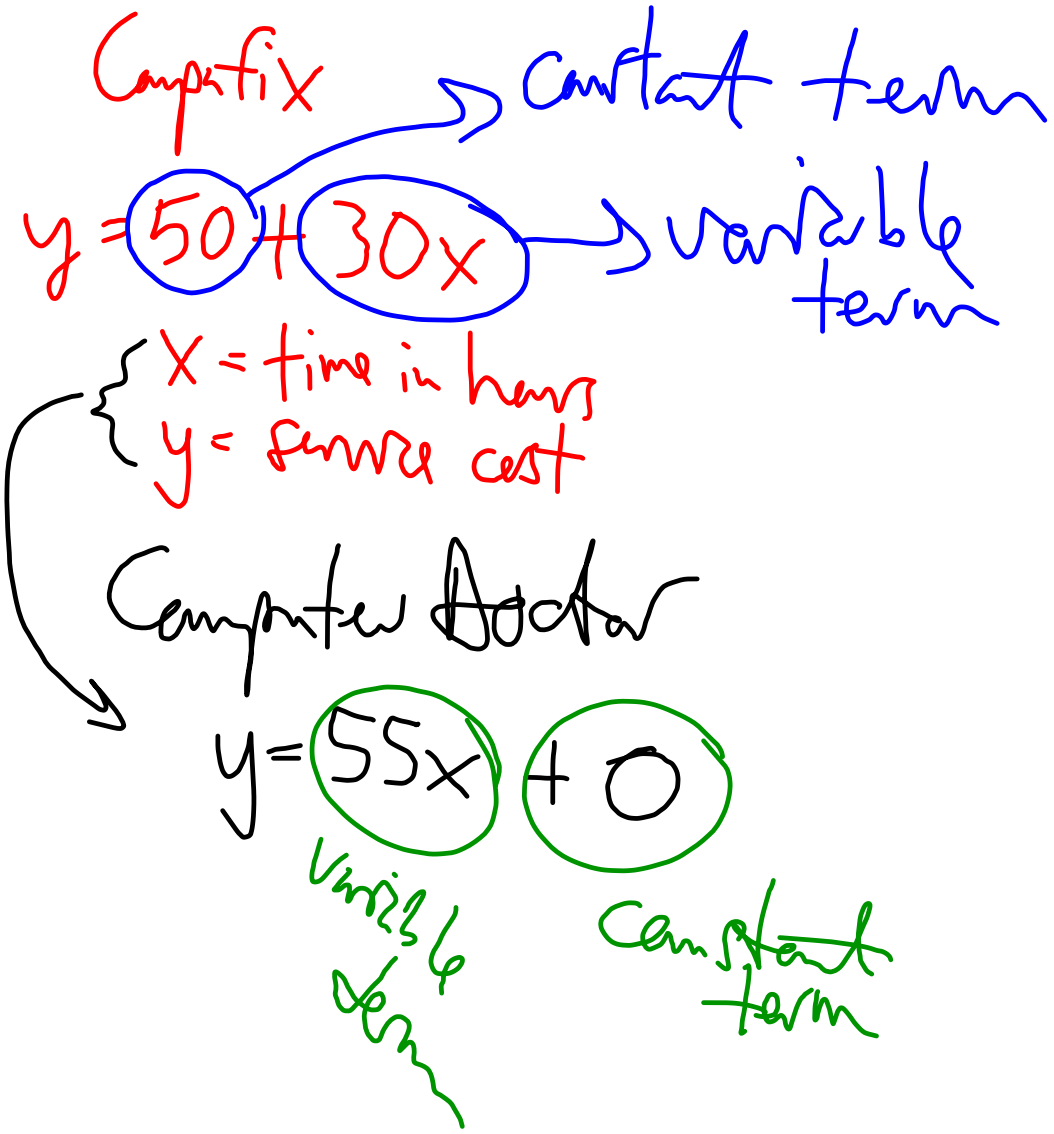
y vs x

y : x

Rate $= \frac{y}{x} = \frac{\uparrow 9}{\rightarrow 3} = \frac{3}{1} = 3$



Worksheet C

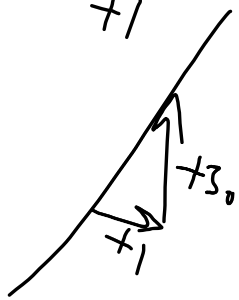

Compfix
constant term
y = 50 + 30x
variable term
x = time in hours
y = service cost
Computer Doctor
y = 55x + 0
variable term
constant term

Worksheet C

Comp fix – Patterns

Domain
+1

Range
+30



Rate triangle

$y = 50 + 30x$

"x" = hours of labor

"y" = service cost ($)

the coefficient of 30x is the pattern in rate △.

$$\text{Rate } \triangle = \frac{\text{dep}}{\text{indep}} = \frac{+30}{+1} = \frac{30}{1} = 30$$

ex. $\frac{2x}{3}$ coefficient $\frac{2}{3}$ = Rate = $\frac{\uparrow 2}{\rightarrow 3}$

worksheet "C" example on back

# of people	cost
0	y=450+15(0)=450
10	600
20	750
30	900
40	1050
50	1200

+10

+150

Rate $\triangle = \frac{+150}{+10}$

$y = 450 + 15x$

$15 = \frac{15}{1} = \frac{+15}{+1}$ Rate

Why? 450 is constant and $15 price times the variable representing the amount of people attending

base fee = $450

variable fee = $15 times x.

2.4 Connecting Equations & Graphs

Ex 1

x	y
0	50
1	80
2	110
3	140
4	170
5	200

x by 1

x by 30

base = 50

y intercept (0, 50)

Rate $\Delta = \frac{30}{1} = 30$

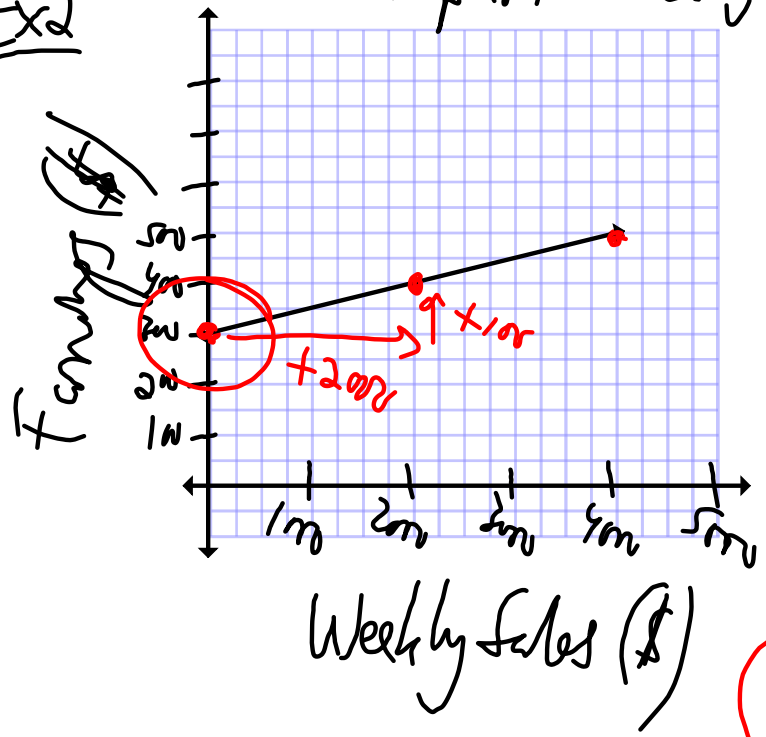
$y = 50 + 30x$

y = constant (base amount) plus variable amount (Rate times x)

page 115 demo graph

Ex2

Mphil's Weekly Earnings



Base earnings = 300

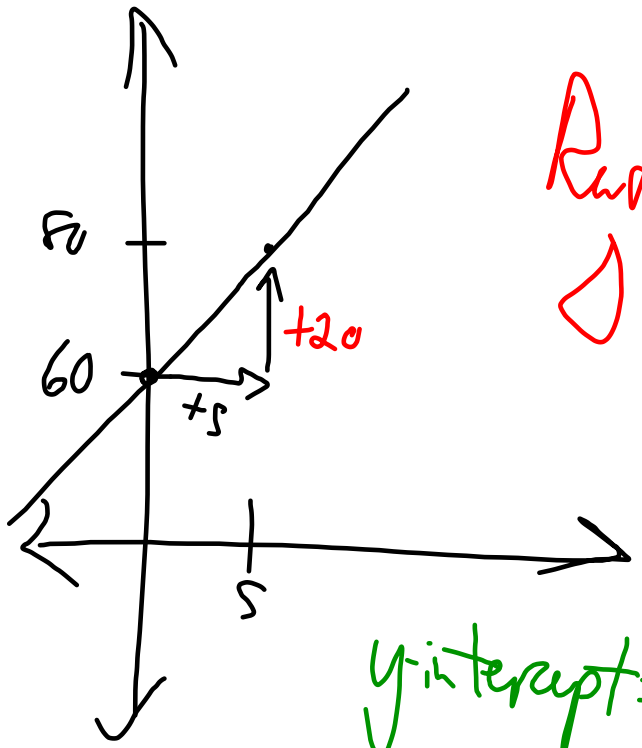
Rate = $\frac{+100}{+2000}$

Rate = $\frac{1}{20}$

Equation? $y = 300 + \frac{1}{20}x$

$y = 300 + 0.05x$

Ex 3



Rate of change = $\frac{\text{dep } \Delta}{\text{indep } \Delta}$

Rate $= \frac{\uparrow 20}{\rightarrow 5} = \frac{4}{1} = 4$

y-intercept = 60

$$y = 60 + 4x$$

$y = (\underset{\text{y-intercept}}{\text{constant}})$ plus (rate times x)