

Bathroom breaks are to be
taken before class!!

Do **NOT** move the desk!!

Turn your phone **OFF**!!

Put your phone up!!

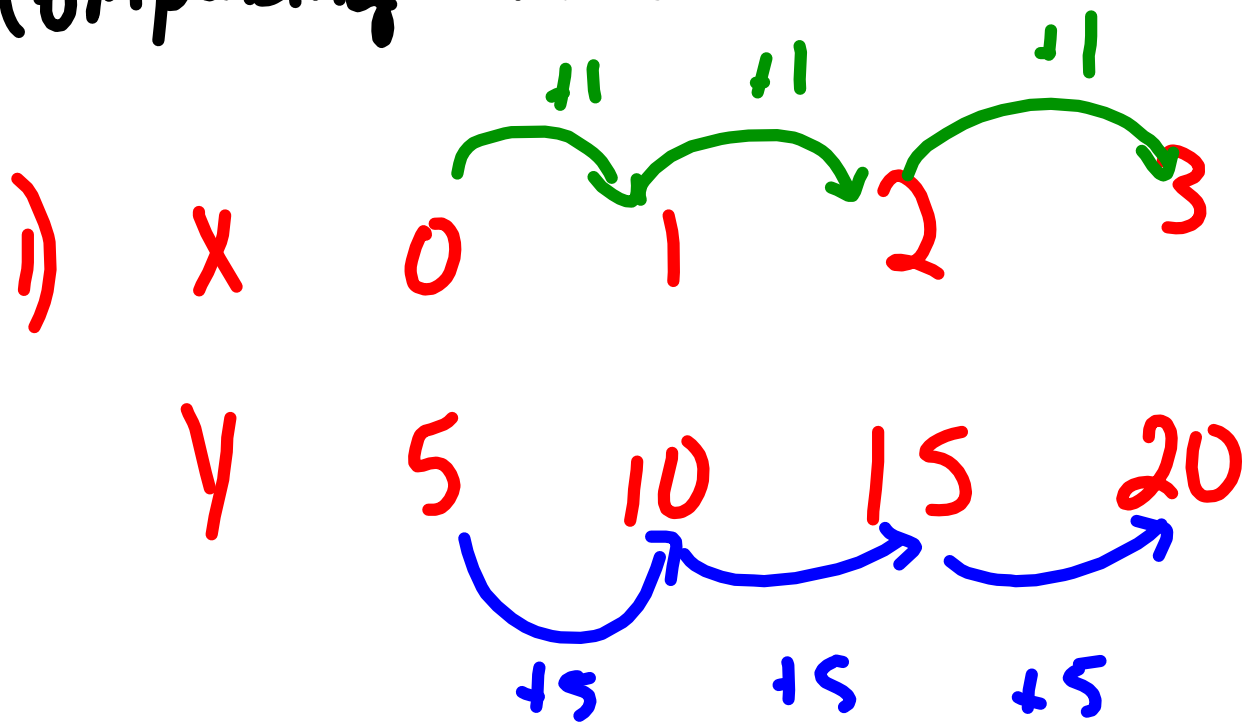
Sit down!! Be quiet!!

Prepare to work!!

Keep your hands to yourself!!

Chap 4 Sec 4
Softbook pg 41

Comparing Linear to Nonlinear Functions

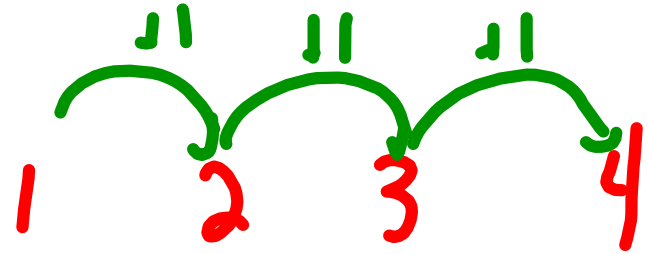


$$m = \frac{5}{1} \text{ or } 5$$

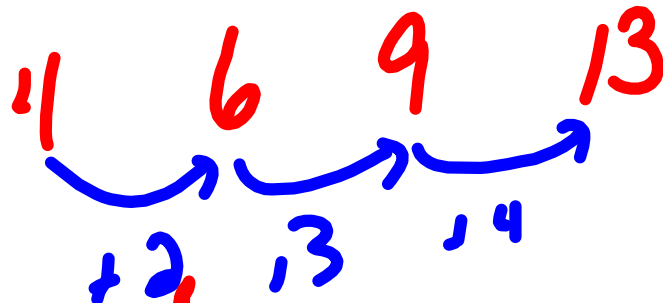
Linear

2)

x

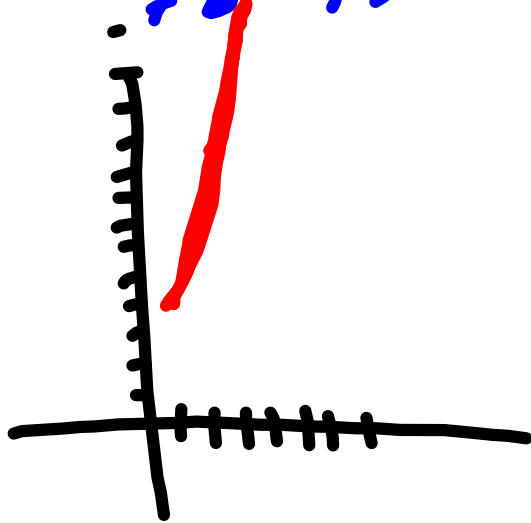


y



$\frac{2}{1}, \frac{3}{1}, \frac{4}{1}$

nonlinear



3)

X	3	5	7	9
Y	5	3	0	-4

$\overset{+2}{\curvearrowright}$ $\overset{+2}{\curvearrowright}$ $\overset{+2}{\curvearrowright}$
 $\underbrace{-2 \quad -3 \quad -4}$

nonlinear

4) $m = \frac{2}{3}$

linear

$$y - y_1 = m(x - x_1)$$

$$5) y = \frac{3}{x}$$

NON LINEAR
function

$$y = mx + b$$

$$6) 2y - 4x = 16$$
$$\frac{2y}{2} = \frac{4x}{2} + \frac{16}{2}$$

★ $y = 4$ linear function

$$y = 2x + 8$$

linear function

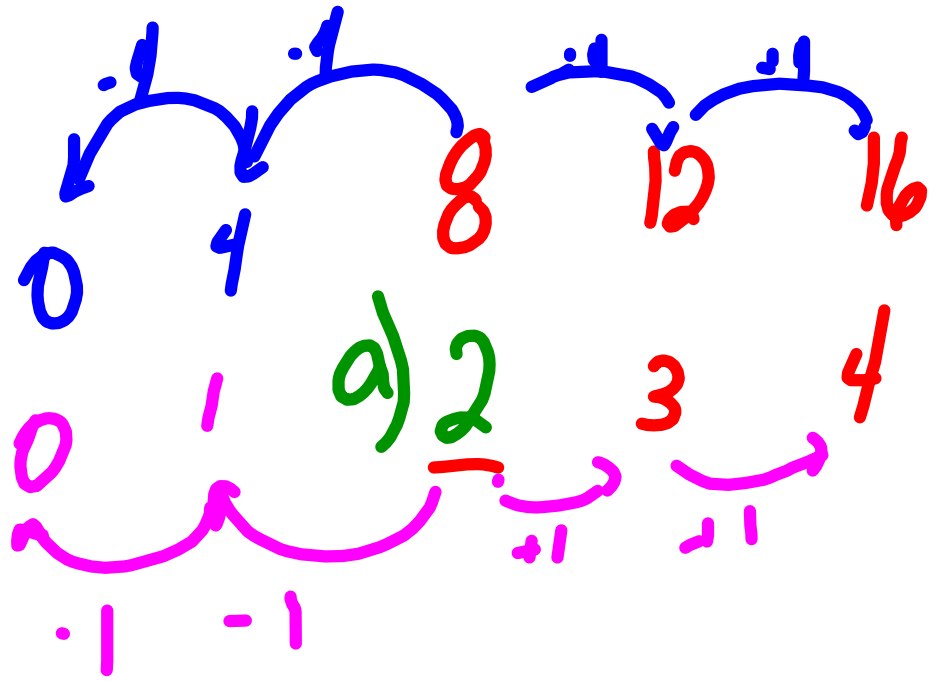
★ $x = -5$ nonlinear

★ $2x^2 + 3y = 4$ nonlinear

★ $2x + 3y^2 = 4$ nonlinear

9) Ounces, x
Cost, y

b) $y = \frac{1}{4}x + 0$



$$y - y_1 = m(x - x_1)$$

11)

years

TYPE A

TYPE B

0

1

2

3

4

6

8

10

12

14

1

2

4

8

16

linear

non linear

