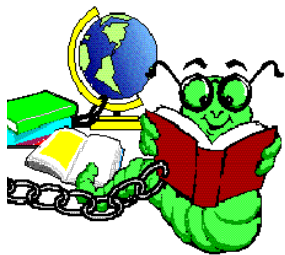
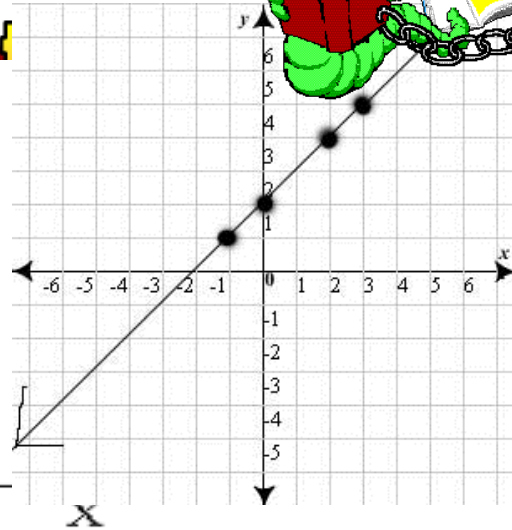
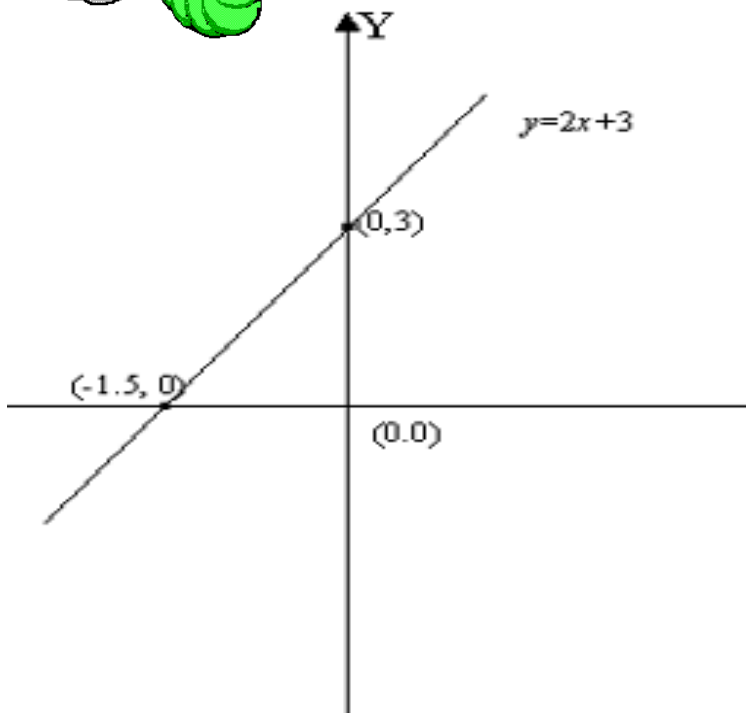


Section 4.2



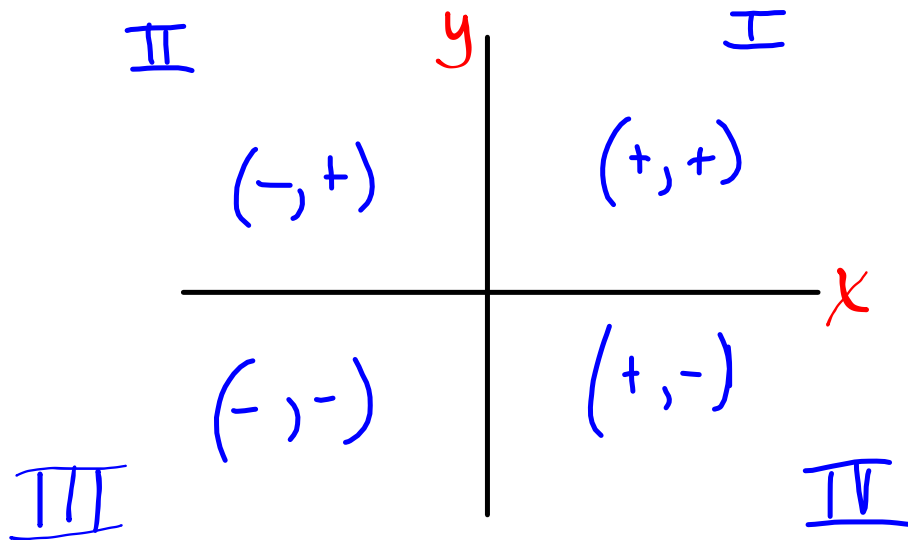
Linear Dele



Do you remember how to plot points?

Graph Review

(x, y)



Remember ME

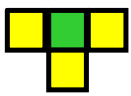


Figure 1

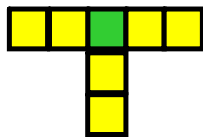


Figure 2

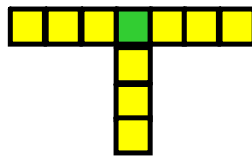


Figure 3

Write an equation that relates the number of blocks, n , to the figure number, f .

Figure # ^(f)	# of Blocks $[n]$
-------------------------	-------------------

1

4 $\rightarrow +3$

$$n = 3f + 1$$

2

7 $\rightarrow +3$

3

10

$$f = 6$$

$$n = 3f + 1$$

$$n = 3(6) + 1$$

$$= 19$$

$$f = 10$$

$$n = 3f + 1$$

$$n = 3(10) + 1$$

$$31$$

6

19

10

31

Remember ME

Let's look at it again.

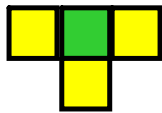


Figure 1

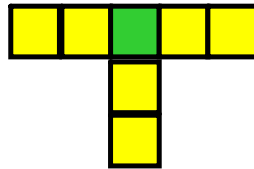


Figure 2

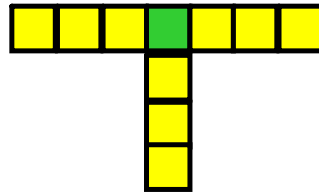
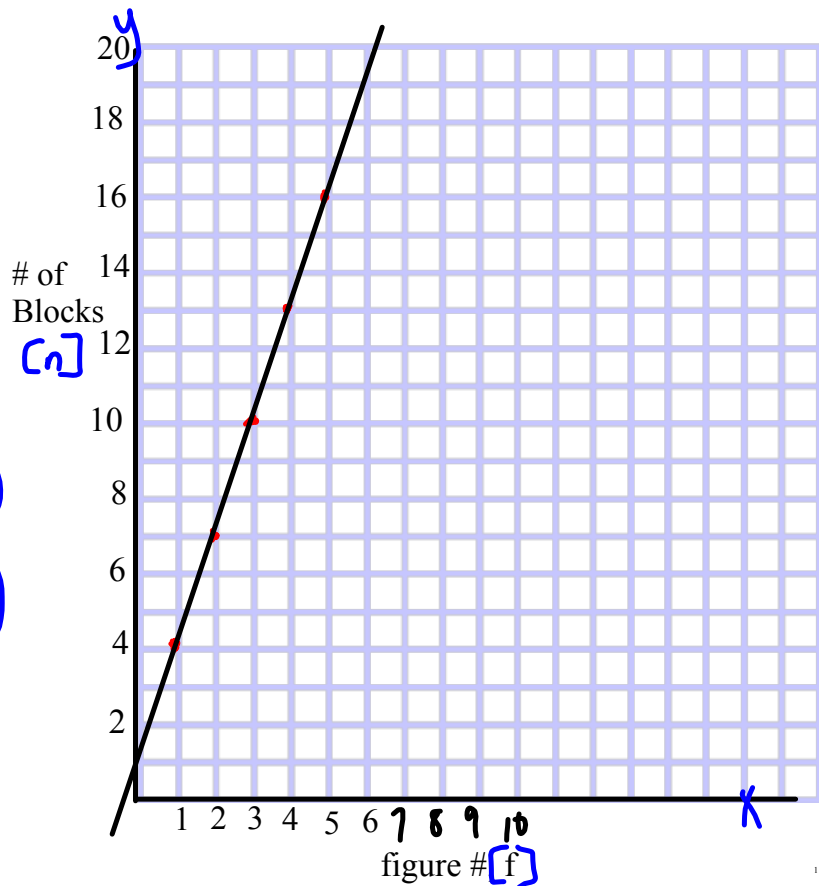


Figure 3

Figure # ^(f)	# of Blocks ⁽ⁿ⁾	point ^(x, y)
1	4	(1, 4)
2	7	(2, 7)
3	10	(3, 10)
4	13	(4, 13)
5	16	(5, 16)
—	—	—



- Describe the relationship between figure number and number of blocks.

A. Make a table of values for the Rectangle number and the perimeter.

B) Write the equation

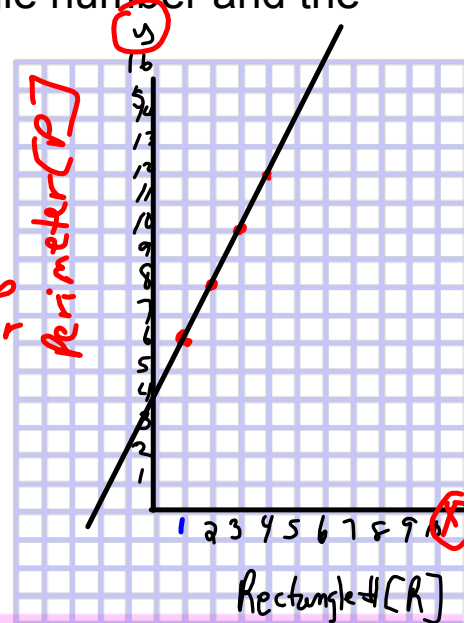
$$P = 2R + 4$$

C) Describe the relation.

As R# increases by 1, the Perimeter increases by 2.

D) Graph

Rectangle # [R]	Perimeter [P]	x, y
1	6 $y+2$	(1, 6)
2	8 $y+2$	(2, 8)
3	10 $y+2$	(3, 10)
4	12 $y+2$	(4, 12)



Linear Relation

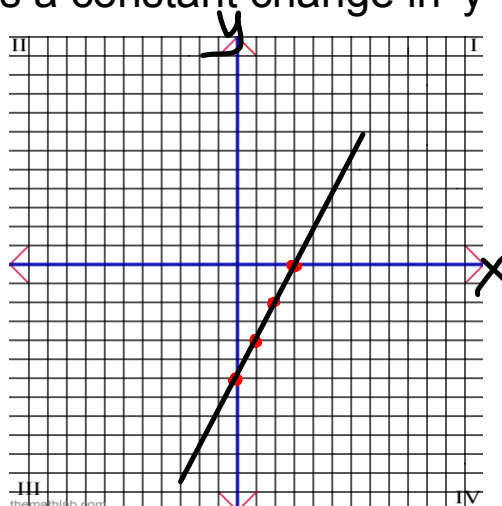
- is when the graph is a straight line
- a constant change in 'x' causes a constant change in 'y'



Table of Values

x	y
0	-6
1	-4
2	-2
3	0

$\rightarrow +2$
 $\rightarrow +2$
 $\rightarrow +2$



A) Describe the relation.

As x increase by 1, y increase by 2.

B) Is it linear? yes

Complete the table for $y=3x + 1$

Show 3 calculations

x	y
1	4
2	7
3	10
4	13

$+3$
 $+3$
 $+3$
 $+3$

$$x=1$$

$$y=3x+1$$

$$3(1)+1$$

$$y=4$$

$$x=2$$

$$y=3x+1$$

$$y=3(2)+1$$

$$7$$

$$x=3$$

$$y=3x+1$$

$$y=3(3)+1$$

$$y=10$$

Page 170 #4 yes or no [a-e]
#5 copy table / Describe
#7. copy table / show 3 calculations

Test Signed