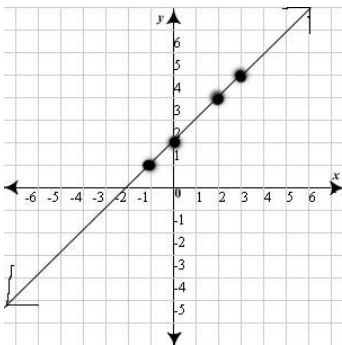
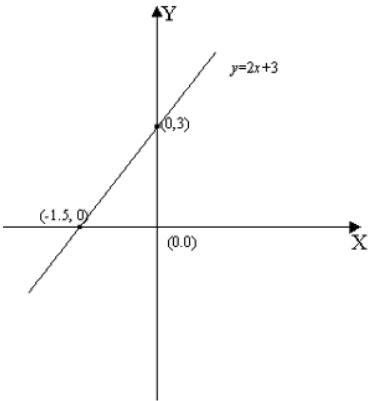


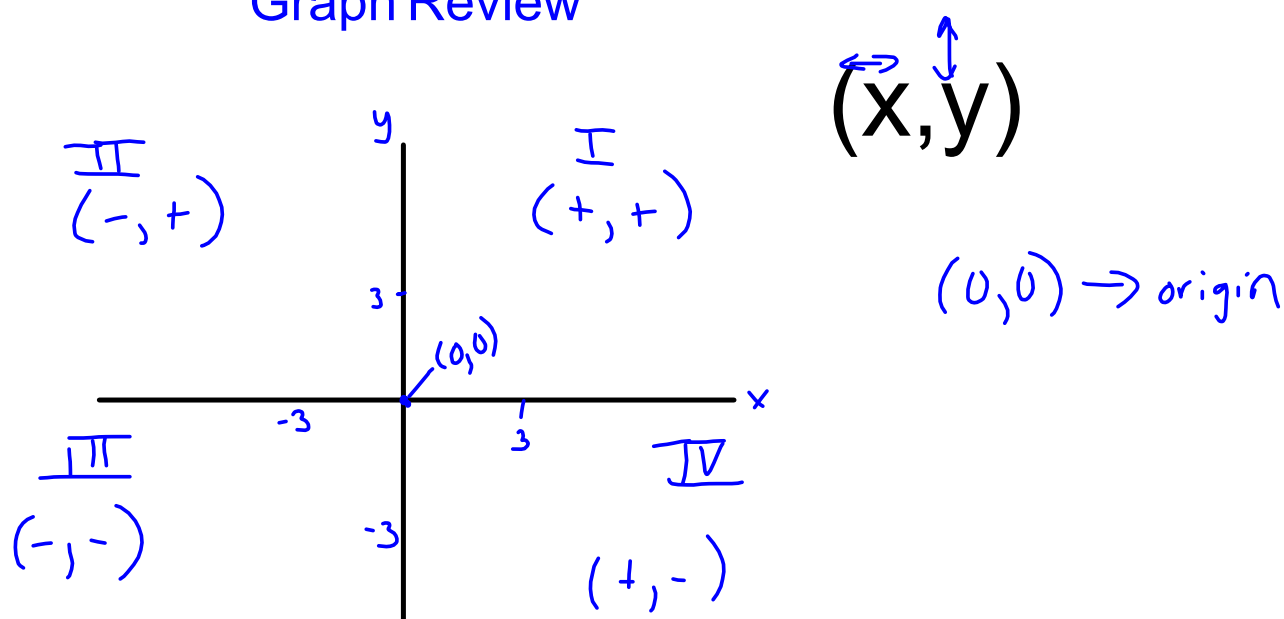
Section 4.2

Linear Relations



Do you remember how to plot points?

Graph Review



Remember ME



Figure 1

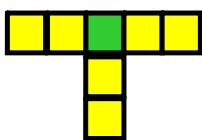


Figure 2

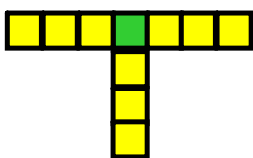


Figure 3

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

Figure #	# of Blocks
<u>1</u>	_____
<u>2</u>	_____
_____	_____
6	_____
10	_____

Remember ME

Let's look at it again.

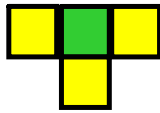


Figure 1

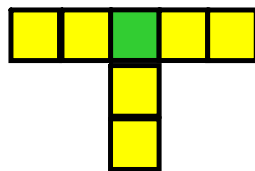


Figure 2

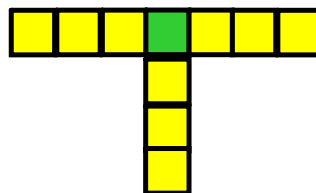
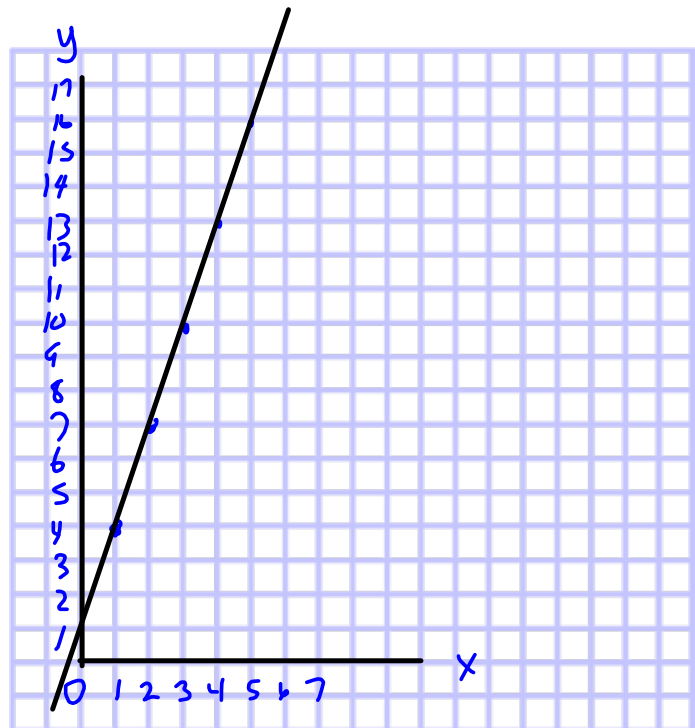


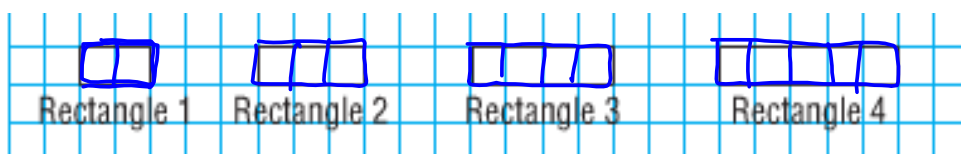
Figure 3

(f) Figure #	(b) # of Blocks	(x, y) point
1	4 $\nearrow +3$	(1, 4)
2	7 $\nearrow +3$	(2, 7)
3	10 $\nearrow +3$	(3, 10)
4	13	(4, 13)
5	16	(5, 16)



a) write the equation? $b = 3f + 1$

- b) Describe the relationship between figure number and number of blocks. As f increases by 1, b increases by 3.



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

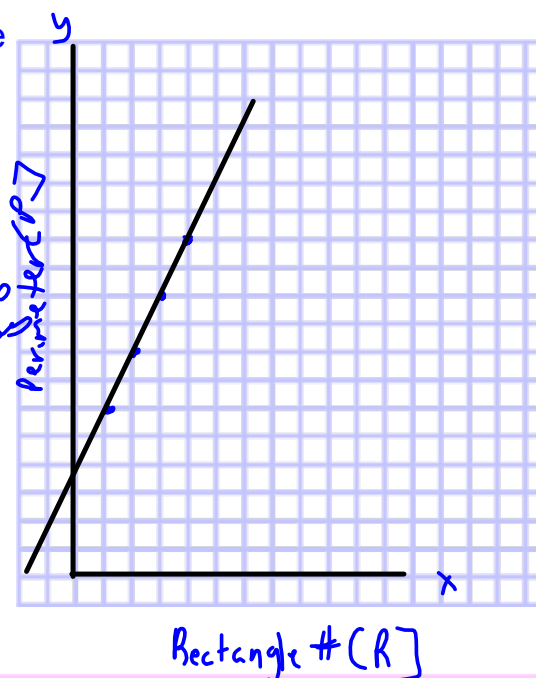
x Rectangle # [R]	y Perimeter [P]	points
1	6	$\nearrow +2$
2	8	$\nearrow +2$
3	10	$\nearrow +2$
4	12	$\nearrow +2$

B) Write the equation
 $P = 2R + 4$

C) Describe the relation.

As R increases by 1, P increases by 2

D) Graph



Linear Relation

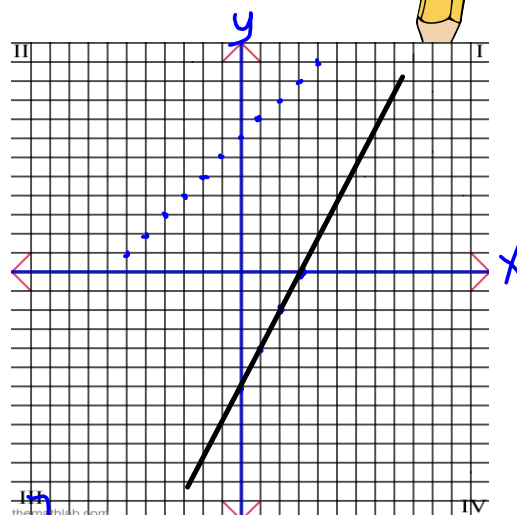
- is when the graph is a straight line
- a constant change in 'x' causes a constant change in 'y'



Table of Values

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

$+2$
 $+2$
 $+2$



A) Describe the relation. [table of values]

As x increases by 1, y increase by 2

B) Is it linear? [graph] yes

Page 170 #4 yes or no [a-e]
#5 copy table Describe

Answers
Page 488