

Chapter 3 Review Wkst

NAME _____
Date _____ Period _____

1. Based on the tile pattern below, draw Figures 0, 4, and 5. Then find a rule that will give the number of tiles in any figure and use it to find the number of tiles in Figure 100. Finally, display the data for the first six figures (numbers 0-5) in a table and on a graph. *make sure your graph is complete.*

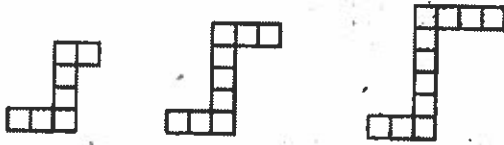


Fig. 0

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

2. Complete each table using the rule on the left.

a.

$$y = 3x - 2$$

Input (x)	-3	-2	-1	0	1	2	3
Output (y)							

b.

$$y = -x + 2$$

Input (x)	-3	-2	-1	0	1	2	3
Output (y)							

Graph the lines/tables from 2a and 2b.
*Make sure your graphs are complete!

3. Complete each table. Then write a rule for each one.

a. Rule:

Input(x)	10	5	20		-7	3	x
Output(y)	14	9		-4	-3		

b. Rule:

Input(x)	22	5	11		-9	12	x
Output(y)	19	2		-8	-12		

c. Rule:

Input(x)	10	0	15		-7	6	x
Output(y)	25	-5		-8		13	

d. Rule:

Input(x)	10	-3	4		-5	15	x
Output(y)	-30	9	-12	-1			

4. Combine the following sets of terms.

a. $(2x^2 + 6x + 10) + (4x^2 + 2x + 3)$

b. $(3x^2 + x + 4) + (x^2 + 4x + 7)$

c. $(8x^2 + 3) + (4x^2 + 5x + 4)$

d. $(4x^2 + 6x + 5) - (3x^2 + 2x + 4)$

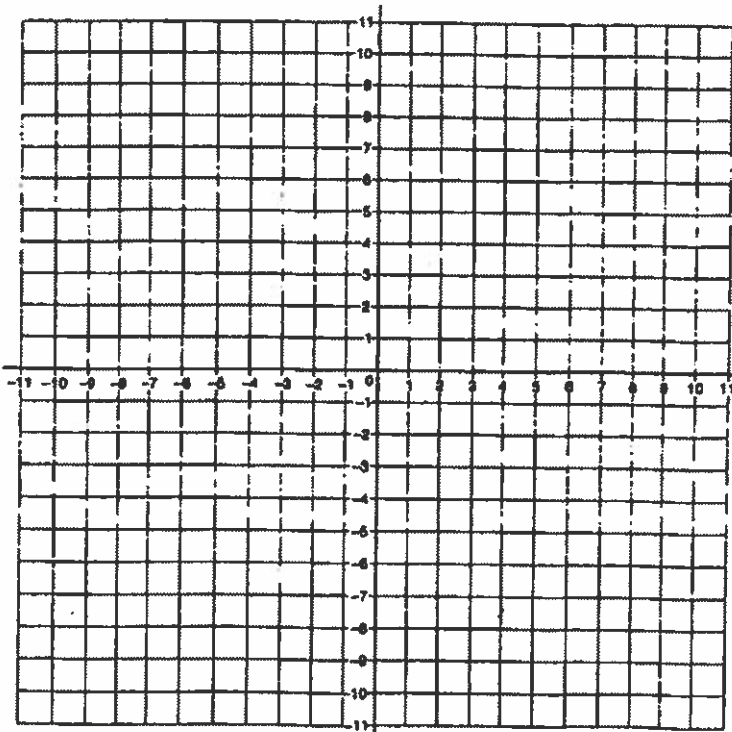
e. $(4x^2 - 7x + 3) + (2x^2 - 2x - 5)$

f. $(3x^2 - 7x) - (x^2 + 3x - 9)$

1.

x	0	1	2	3	4	5
y						

1. Graph:



2a and 2b graph:

