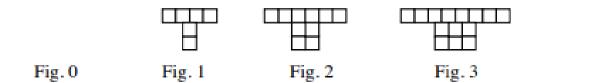
Name:_		Number:
	Date:	Period:

Fig. 4

Course 3 Chapter 3 Study Guide

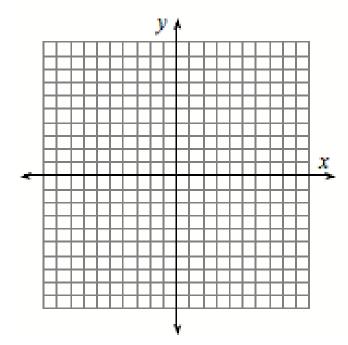
1.) Study the tile pattern below.



- a. Draw figure 0 and figure 4
- b. Create a table to match the pattern above.

Figure Number	0	1	2	3	4	5
Number of Tiles						

- c. Create a rule (equation) to match the pattern above.
- d. Create a graph to match the pattern above.



e. How many tiles will be in figure 50? Show how you found your answer.

- f. Is there a figure that would have 100 tiles? If so, which figure is it? Show how you found your answer.
- 2.) a. Betty plans to bike to Morro Bay to meet her friends for lunch. On average, Betty bikes 5 miles to work in 22 minutes. How long will Betty take to bike to lunch, which is 15 miles away?
 - b. If Betty has been biking for 3 hours, how many miles has she traveled?
- 3.) Solve each equation. Show all work.

a.
$$6x - 3 = 3x + 3$$

b.
$$4y - 6 - y = 2y - 1$$

c.
$$4 + 5x + 1 = x + 7 + 2x$$

d.
$$7 = 5y - 3 - (2y - 2)$$

e.
$$3(4x + 5) = 2x - 6 + 2x$$

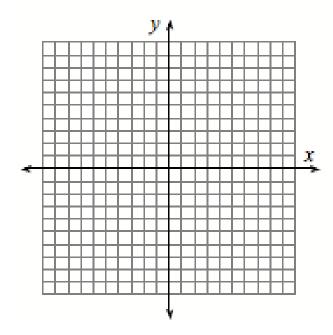
f.
$$-(2x + 5) = -3x + (-5) + x$$

g. How do you know if an equation had infinitely many solutions? Give examples to support your reasoning.

- 4.) Using the rule y = -2x 1,
 - a. Make a table for the rule.

Х	-3	-2	-1	0	1	2	3	4
Y								

b. Use your table to graph your rule. Make sure your graph is complete.



c. Does (-4, 9) follow the rule? Explain how you know.