<u>Ch 4 Study Guide</u>			
Name:	_ Period:	_ Date:	
1.) Which of the following points is on the	line $y = -2x + 1?$ S	how your work or explain how	

you decided.

a. (0, -2) b. (-2, 0) c. (-1, 3) d. (3, -1) e. (10, -19)

2.) Study the tile pattern below.



a. Draw Figure 0 & 4.

b. Write an equation (rule) for the number of tiles in the pattern.

3.) Betty has a new part-time job walking dogs after school. The equation y = 10x + 20 shows the relationship between her hours of work (*x*) and the amount of money in her bank account (*y*).

- a. How much money did she have in her bank account before he started working? How can you tell from the equation?
- b. How much is Betty earning per hour? Justify your answer.

Solve for x. Show your work.

$4) 3x - 4 = 8x + 7 - 4x \qquad 5) 4$	4(x - 5) = 20
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8.) Graph the following rules on one set of axes. Label each line with its equation. Highlight the line the following colors.



y ⊤10[‡] y 个 8-Ł t 6 4 2 X 8 10 × ϵ -10 -8 -6 -4 0 6 2 4 2 2--4-6 -8-10

Write an equation for each graph below.

9.)