

Chapter 9 Study Guide and Review for Test Form 2A and 2B

PROBLEMS 1, 18, 19, & 20 ARE EXTRA CREDIT ONLY AND NOT REQUIRED

Chapter 9, Lesson 1: **“Functions”** (problems 4 – 6 & 16 - 17)

- What do you do when you have a problem such as this: $f(x)$ if $f(2) = x - 7$

- If you were given the function values & table below, how you would determine the correct function?

$f(x)$ if $f = 4x - 2$

$f(x)$ if $f = 5x + 1$

$f(x)$ if $f = 2x + 4$

$f(x)$ if $f = 4x + 2$

x	$f(x)$
-3	-14
0	-2
3	10

Chapter 9, Lesson 2: **“Representing Linear Functions”** (problems 6 - 7)

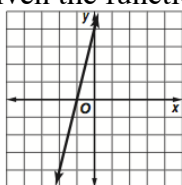
- If you were given the functions below, how you would find the correct function graphed from the one shown?

$y = -4x + 4$

$y = -1/4x + 4$

$y = 4x + 4$

$y = 1/4x + 4$



How would you solve this problem:

Which ordered pair is not a point on the graph of: $y = 2x - 3$ A (1, -1) B (2, 1) C (0, 3) D (-2, -7)

Chapter 9, Lesson 3: **“Slope”** (problems 8 - 10)

- How would you find the slope of a line if they simply gave you this: A (-1, -4), B (2, 2) ?

Chapter 9, Lesson 4: **“Direct Variation”** (problem 2)

- Describe how you would solve the following:

If y varies directly with x, write an equation for the direct variation, then find each value.

If y = -12 when x = 9, find y when x = -4

Chapter 9, Lesson 5: **“Slope-Intercept Form”** (problems 11 - 13)

How would you find the slope for the equation $y = 3x + 4$? How would you find the y-intercept for $y = 3x + 4$?

- Describe what you would do with this equation first before identifying the slope and y-intercept: $3x + y = -4$

Chapter 9, Lesson 8: **“Scatter Plots”** (problems 14 - 15)

A positive relationship scatter plot: A negative relationship scatter plot: A no relationship scatter plot:

- Describe what you would do to determine the relationship between *the length of a shower and water used*: