2016-2017 LC Math I Final Exam Review Day 2 Name: Period:

Date:

Unit 1 – Linear Functions and Equations Functions

A relation is a function if:

Notation:



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Date:

Analyzing a Function

Domain	
Range	6 4 5 4
Increasing on:	
Decreasing on:	
Positive on:	
Negative on:	

Finding intercepts:

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Unit 1 Functions Practice:

A) For the following, give the domain and range, tell whether the relation is function, and fill in the function statement:



- B) For the graph on the bottom left:
 - a. Where is the function increasing?
 - b. Where is the function decreasing?
 - c. Where is the function positive?
 - d. Where is the function negative?

C) If f(x) = 12x + 6,

- /		
	Find $f(12)$	Find $f(3)$
	Find x if $f(x) = 40$	Find x if $f(x) = -30$
	Find x if $f(x) = 40$	Find x if $f(x) = -30$
	Find x if $f(x) = 40$	Find x if $f(x) = -30$
	Find x if $f(x) = 40$	Find x if $f(x) = -30$
	Find x if $f(x) = 40$	Find x if $f(x) = -30$
	Find x if $f(x) = 40$	Find x if $f(x) = -30$
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	Find x if $f(x) = 40$	Find x if $f(x) = -30$
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	Find x if $f(x) = 40$	Find x if $f(x) = -30$

2016-2017 LC Math I		Name:	
Fina	l Exam Review Day 2	Period:	Date:
Γ	Find the x-intercept of $y - 9 = 3(x + 4)$	Find the y-intercept of $6x - 8y = 24$	

E) Word Problem: Jana recorded the height (x) and weight (y) of the seven Wide Receivers on the New Orleans Saints during the 2010 NFL season.

The linear regression function f(x) = 4.6x - 125 estimates a player's weight in pounds if he is *x* inches tall.

What is the slope of the regression, and what does it mean in context?	What is the y-intercept, and what does it mean in context?
What is the x-intercept, and what does it mean in context?	Evaluate <i>f</i> (72). What does your answer mean in context?
Is $f(100) = 46$ true? Justify your answer.	What is <i>x</i> if $f(x) = 280$? What does your answer mean in context?