BC Calculus, Learning Log Name _____

WDYLT? Part of each assignment in Calculus is your response to these 3 questions:

1. **What did you learn today that was new?** 2. **How does what you learned relate to what you previously knew?** 3. **What good is this new idea?**

You may answer these questions at any time during your assignment, but your responses should always appear as questions a, b, and c at the beginning of each assignment. Your responses will count as 1/5 of your score for each assignment.

CH 1	Big Idea: Function Groups are important in Calculus		Enduring Understanding: The math I learned in Precalculus will be used almost every day in our study of calculus.		Enduring Question: What do I need to know from Precalculus to succeed in Calculus?
Day	Title	Concept	LEARNING TARGETS (What I should understand, know, and be able to do.)	How am I doing? A= I knew how and got it right B= I knew how, but small error C= I had no idea/guessed right D= I had no idea/guessed wrong	Assessments/Learning Activities
1	1.1	Linear Functions	a. I can build equations of lines given a variety of information (point and a line, parallel/perpendicular, two points, etc.)		❒ WDYLT? ❒ 1.1: 10, 13, 16, 19, 20, 33 ❒ 1.2: 6, 12, 15, 18, 53 ❒ Function Library ❒ Trig. Values ❒ Trig. Identities ❒ Properties of Logs
			b. I can use linear functions to model authentic situations.		
	1.2	Functions and Graphs	a. I understand the definition of functions.		
			b. I can determine the domain and range of functions including composition of functions.		
			c. I will recognize and be able to sketch the familiar functions of the Function Library.		
2	1.3	Exponential Functions	a. I understand the standard form of exponential functions		❒ WDYLT? ❒ 1.3: 3, 4, 12, 19, 22, 26, 38, 39 ❒ 1.2: 4, 15, 72 ❒ 1.2: 52 ❒ Function Library ❒ Trig. Values ❒ Trig. Identities ❒ Properties of Logs
			b. I can build exponential functions by hand and with a grapher.		
			c. I can model authentic growth and decay situations using exponential functions.		
Quiz 1		Score: ___ Possible: ___	What do I need help with?	What's my plan?	What did I do?
3	1.4	Parametric Functions	a. I see the advantages to using parametric equations to describe functions.		❒ WDYLT? ❒ 1.4: 1, 2, 4, 5, 7, 8, 12, 13, 15, 18, 21, 23, 35, 29, 32, 35, 37

			b. I can graph curves described using parametric equations both by hand and with a grapher.		❒ Function Library ❒ Trig. Values ❒ Trig. Identities ❒ Properties of Logs
			c. I can find build parametric equations for circles, ellipses, line segments, and other curves.		
4	1.5	Inverse Functions (Exponentials and Logarithms)	a. I understand what an inverse function is.		❒ WDYLT? ❒ 1.5: 9, 20, 23, 38, 40, 47, 49 ❒ 1.3: 1, 15, 20 ❒ 1.2: 46 ❒ Function Library ❒ Trig. Values ❒ Trig. Identities ❒ Properties of Logs
			b. I can find inverses of functions.		
			c. I understand that a function must be one-to-one for its inverse to also be a function.		
			d. I understand that inverse functions i Compose to cancel each other out ii Have graphs which are symmetric about the line $y = x$ iii Use special notation		
			e. I understand the inverse of exponential functions are logarithms.		
			f. I can use the properties of logs to simplify expressions and solve exponential and logarithmic equations.		
Quiz 2		Score: ___ Possible: ___	What do I need help with?	What's my plan?	What did I do?
5	1.6	Review of Trigonometry	a. I understand and use right triangle definitions of trigonometric functions.		❒ WDYLT? ❒ 1.6: 5, 9, 12, 15, 17, 24, 27, 31 ❒ 1.5: 8, 19, 46 ❒ 1.3: 25
			b. I understand and use unit circle definitions of trigonometric functions.		
			c. I will memorize values for all six trig functions for familiar angles.		
			d. I will memorize basic trig identities		
			e. I can sketch and recognize graphs of all six trig functions and inverses of sine, cosine, and tangent (including identify domain and range).		

Quiz 3		Score: ___ Possible: ___	What do I need help with?	What's my plan?	What did I do?
Review			What do I need help with?		❒ Review, Chap. 1: 6, 11, 16, 21, 45, 48, 49, 54, 60, 67 ❒ 1.6: 6, 32, 37 ❒ 1.5: 39
6	Test 1	Score: ___ Possible: ___	What do I need help with?	What's my plan?	What did I do?