Grade 12

Distance Learning Module 1

Week of: 03/30/20

Mathematics: Introduction to Calculus Level 2 - *Modified from Unit C - Derivatives*

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Determining and applying the first derivative using the rules.

Vocabulary: Slope, tangent, velocity, and acceleration.

Skills: Determine the derivative of a function and use it to determine the slope and equation of a tangent line.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Review of the Power Rule	Class Notes - Power Rule	Khan Academy Practice - Power Rule
	P.Birdsall –Altervista <u>The Power Rule</u>	
Tuesday: Product and Quotient Rule	Class Notes - Product Rule	Khan Academy Practice - Product & Quotient
	P.Birdsall –Altervista The Product Rule	
	Class Notes - Quotient Rule	
	P.Birdsall –Altervista The Quotient Rule	
Wednesday: Trigonometric Rules	Class Notes - Trigonometric Rules	Khan Academy Practice - Trig Rules
	P.Birdsall –Altervista Trigonometric Rules	
Thursday: Exponential and Logarithmic Rules	Class Notes - Exponential Rules	Handout on Power, Product, Quotient, Trig,
	P.Birdsall –Altervista The Exponential Rules	Log, and Exponential Rules
	Class Notes - Logarithmic Rules	
	P.Birdsall –Altervista Logarithmic Rules	
Friday: The Chain Rule	Class Notes - The Chain Rule	Khan Academy Practice - The Chain Rule
	P.Birdsall –Altervista The Chain Rule	

Week criteria for success (attach student checklists or rubrics): By the end of this module students should be able to determine the equation of the tangent to a graph using explicit derivatives. Students should also be able to distinguish between position, velocity and acceleration and how they relate to each other in terms of being derivatives of each other.

Supportive resources and tutorials for the week (plans for re-teaching): Class Notes, Khan Academy, worksheets, office hours