Grade 12

Distance Learning Module 3 - Week of: 4/13th - 4/17th

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

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Applying Rolle's and the Mean Value Theorem

Vocabulary: Increasing vs Decreasing

Skills: Using the Mean Value Theorem and Rolle's Theorem to determine whether a solution is possible over a given interval. Introduction to increasing and decreasing intervals of a function.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Related Rates	Class Notes -Related Rates Day 2 <u>Altervista-The Power Rule</u>	Related Rate Worksheet (Posted in Google classroom)
Tuesday: Introduction to Rolle's Theorem	Class Notes -Rolle's Theorem <u>Altervista-The Power Rule</u>	Khan Academy Practice - Rolle's Theorem YouTube -Mean value theorem - Existence theorems
Wednesday: Introduction to the Mean Value Theorem	Class Notes - Mean Value Theorem <u>Altervista-The Power Rule</u>	Khan Academy Practice - Mean Value Theorem
Thursday: Applying the Mean Value Theorem	Class Notes - Mean Value Theorem Day 2 <u>Altervista-The Power Rule</u>	Khan Academy Practice - Mean Value Theorem
Friday: Increasing vs Decreasing Functions	Class Notes - Mean Value Theorem Day 3	Worksheet - 2.9

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
	Altervista-The Power Rule	Posted in Google classroom

Week criteria for success (attach student checklists or rubrics): Students should be able to use Mean Value Theorem and Rolle's Theorem to determine whether a solution is possible over a given interval. Students should also be able to use the Mean Value Theorem and Rolle's Theorem to indicate the intervals where a function is increasing and decreasing over particular intervals.

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