Name: Mrs. Woods		Grading Quarter: 2	Week Beginning: 11/18/24
School Year: 24-25		Subject: AP Calculus AB	
Monday	Notes:	Objective: Students will be able to use L'Hospital's rule to find indeterminate limits. Lesson Overview: Notes – Review indeterminate limits of the forms 0/0 and inf/inf. Show how the rule is different from the quotient rule. Practice together as a class then individually on the large whiteboards.	Academic Standards: 4.7 Using L'Hospital's Rule for Determining Limits of Indeterminate Forms 3.D Apply an appropriate mathematical definition, theorem, or test.
Tuesday	Notes:	Objective: Students will be able to analyze f' graphs to find relative extrema and intervals of increasing and decreasing functions. Lesson Overview: Notes – First derivative test (max and mins), Second derivative test (max and mins), Inflection points (critical points of second derivative), and concavity	Academic Standards: 5.8 Sketching Graphs of Functions and Their Derivatives 2.D Identify how mathematical characteristics or properties of functions are related in different representations. 5.9 Connecting a Function, Its First Derivative, and Its Second Derivative 2.D Identify how mathematical characteristics or properties of functions are related in different representations.
Wednesday	Notes:	Objective: Student will be able to solve optimization problems with derivatives. Lesson Overview: Notes: How are optimization problems the same as finding absolute extrema? Find critical points and end points. Set up candidate's test. Do Pg. 358 #1, 2, and 9 together Use the remainder of the time for independent practice.	Academic Standards: 5.10 Introduction to Optimization Problems 2.A Identify common underlying structures in problems involving different contextual situations. 5.11 Solving Optimization Problems 3.F Explain the meaning of mathematical solutions in context.
Thursday	Notes:	Objective: Students will be able to find basic antiderivatives. Lesson Overview: Notes: Start with polynomial functions and "go backwards" with the power rule. What do we need to do to account for coefficients? Introduce trig and exponential rules. Solve introductory differential equations with an initial condition.	Academic Standards: 6.8 Finding Antiderivatives and Indefinite Integrals: Basic Rules and Notation 4.C Use appropriate mathematical symbols and notation.

Friday	Notes:	Objective: Students will be able to find basic antiderivatives. Lesson Overview: *This is a continuation of yesterday's lesson.* Use homework questions to guide today's practice. Kahoot: Basic antiderivatives.	Academic Standards: 6.8 Finding Antiderivatives and Indefinite Integrals: Basic Rules and Notation 4.C Use appropriate mathematical symbols and notation.