

Name: Mrs. Woods		Grading Quarter: 2	Week Beginning: 10/28/24
School Year: 24-25		Subject: AP Calculus AB	
Monday	Notes:	<p>Objective: Students will be able to solve related rates problems.</p> <p>Lesson Overview: Notes – Why do we need related rates problems? Tie to implicit differentiation. Independent variable of time. Examples: volume of sphere, ladder falling, cars approaching.</p>	<p>Academic Standards: CHA-3.D Calculate related rates in applied contexts. CHA-3.E Interpret related rates in applied contexts.</p>
Tuesday	Notes:	<p>Objective: Students will be able to solve related rates problems.</p> <p>Lesson Overview: Continue working examples: first with partners, then independently.</p>	<p>Academic Standards: Academic Standards: CHA-3.D Calculate related rates in applied contexts. CHA-3.E Interpret related rates in applied contexts.</p>
Wednesday	Notes:	<p>Objective: Students will be able to find absolute maximums and minimums of a function of a given interval.</p> <p>Lesson Overview: Notes – Extreme Value Theorem, Candidates Test Use book examples first, then Khan Academy examples for extra practice</p>	<p>Academic Standards: 5.2 Extreme Value Theorem, Global Versus Local Extrema, and Critical Points 3.E Provide reasons or rationales for solutions and conclusions. 5.5 Using the Candidates Test to Determine Absolute (Global) Extrema 1.E Apply appropriate mathematical rules or procedures, with and without technology</p>
Thursday	Notes:	<p>Objective: Students will be able to find absolute maximums and minimums of a function of a given interval.</p> <p>Lesson Overview: Notes – Extreme Value Theorem, Candidates Test Use book examples first, then Khan Academy examples for extra practice</p>	<p>Academic Standards: 5.2 Extreme Value Theorem, Global Versus Local Extrema, and Critical Points 3.E Provide reasons or rationales for solutions and conclusions. 5.5 Using the Candidates Test to Determine Absolute (Global) Extrema 1.E Apply appropriate mathematical rules or procedures, with and without technology</p>

Friday	Notes:	<p>Objective: Students will be able take derivatives of common formulas to solve related rates problems.</p> <p>Lesson Overview: Related Rates Quiz</p>	<p>Academic Standards:</p> <p>4.4 Introduction to Related Rates 1.E Apply appropriate mathematical rules or procedures, with and without technology.</p> <p>4.5 Solving Related Rates Problems 3.F Explain the meaning of mathematical solutions in context.</p>
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