

Name: Woods		Grading Quarter:1	Week Beginning: 9/9/24
School Year: 24-25		Subject: AP Calculus AB	
Monday	Notes:	<p>Objective: Students will use the power rule to find the derivative of polynomial functions.</p> <p>Lesson Overview:</p> <p>Discuss when derivatives do not exist. Differentiability implies continuity. Difference between a tangent and normal line – focus on what information you need to create each of these things (a point and a slope). Connection between position, velocity, and acceleration.</p> <p>Students work in pairs on textbook problems.</p>	<p>Academic Standards: AP Calculus AB 2.4 Connecting Differentiability and Continuity: Determining When Derivatives Do and Do Not Exist 3.E Provide reasons or rationales for solutions and conclusions. 2.5 Applying the Power Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology.</p>
Tuesday	Notes:	<p>Objective: Students will use the product and quotient rules to find the derivatives of rational functions.</p> <p>Lesson Overview:</p> <p>Discuss: What kinds of functions will require the product and quotient rules? Proof of why the product rule is necessary using a simplified and unsimplified polynomial function to get two different answers. Introduce higher-order derivatives.</p>	<p>Academic Standards: AP Calculus AB 2.8 The Product Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology. 2.9 The Quotient Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology.</p>
Wednesday	Notes:	<p>Objective: Students will use the product and quotient rules to find the derivatives of rational functions.</p> <p>Lesson Overview:</p> <p><i>This is a continuation of previous day's lesson.</i></p> <p>Students work independently on the big whiteboards to practice using these rules.</p>	<p>Academic Standards: AP Calculus AB 2.8 The Product Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology. 2.9 The Quotient Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology.</p>
Thursday	Notes:	<p>Objective: Students will use the product and quotient rules to find the derivatives of rational functions.</p> <p>Lesson Overview:</p> <p>Khan Academy independent practice day</p>	<p>Academic Standards: AP Calculus AB 2.8 The Product Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology. 2.9 The Quotient Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology.</p>

Friday	Notes:	<p>Objective: Students will be able to write tangent line equations.</p> <p>Lesson Overview: Tangent line quiz</p>	<p>Academic Standards: AP Calculus AB 2.8 The Product Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology. 2.9 The Quotient Rule 1.E Apply appropriate mathematical rules or procedures, with and without technology.</p>
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