

Name: Woods		Grading Quarter:1	Week Beginning: 9/9/24
School Year: 24-25		Subject: Precalculus	
Monday	Notes:	<p>Objective: Students will be able to evaluate logarithmic functions using the properties of exponents and logs.</p> <p>Lesson Overview: Notes: Start with parent function (<math>\ln x</math>) and discuss how different x-values (negatives, less than 1, greater than 1) create different y-values. Pay particular attention to domain restrictions. Discuss application problems, such as solving for time in a compound interest problem or half-life problem.</p>	Academic Standards: P.F-BF.B.5 Understand the inverse relationship between exponents and logarithms and use this relationship to solve problems involving logarithms and exponents.
Tuesday	Notes:	<p>Objective: Students will be able to evaluate logarithmic functions using the properties of exponents and logs.</p> <p>Lesson Overview: Use big whiteboards and groups of 3-4 students to practice evaluating, with and without technology.</p>	Academic Standards: P.F-BF.B.5 Understand the inverse relationship between exponents and logarithms and use this relationship to solve problems involving logarithms and exponents.
Wednesday	Notes:	<p>Objective: Students will be able to graph logarithmic functions given a logarithmic equation.</p> <p>Lesson Overview: Notes: Start with parent function (<math>\ln x</math>) and explore how shifts and stretches result in new graphs. Review exponent/log rules before using tables to graph. Pay particular attention to negative values and domain restrictions. Use big whiteboards and groups of 3-4 students to practice graphing.</p>	Academic Standards: P.F-IF.C.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. P.F-BF.B.5 Understand the inverse relationship between exponents and logarithms and use this relationship to solve problems involving logarithms and exponents.
Thursday	Notes:	<p>Objective: Students will be able to graph logarithmic functions given a logarithmic equation.</p> <p>Lesson Overview: Open note quiz on lessons 1 through 4</p>	Academic Standards: P.F-BF.B.5 Understand the inverse relationship between exponents and logarithms and use this relationship to solve problems involving logarithms and exponents.

Friday	Notes:	<p>Objective: Students will show mastery of exp/log graphs on Desmos.</p> <p>Lesson Overview:  “Marbleslides” activity on Desmos manipulating exponential and logarithmic graphs</p>	<p>Academic Standards:  P.F-IF.C.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.</p>
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