

Name: Woods		Grading Quarter:1	Week Beginning: 9/16/24
School Year: 24-25		Subject: Precalculus	
Monday	Notes:	<p>Objective: Students will be able to use log properties to rewrite log expressions.</p> <p>Lesson Overview: Notes: Product, quotient, and power rules for logs. Use Kahoot "Logs in your head" to practice writing log expressions in different forms.</p>	<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.</p>
Tuesday	Notes:	<p>Objective: Students will be able to solve exponential and logarithmic equations with and without technology.</p> <p>Lesson Overview:  Notes: Start with "Level 1" problems and work up to "Level 6" problems. Take note of problem-solving strategies at each level. Partner work: Rotate partners solving problems on the projector. Formatively assess what levels need the most work.</p>	<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.</p>
Wednesday	Notes:	<p>Objective: Students will be able to solve exponential and logarithmic equations with and without technology.</p> <p>Lesson Overview: <i>This is a continuation of yesterday's lesson.</i> "Problems around the room" style of review. Focus particularly on problems that require log properties to solve.</p>	<p>Academic Standards: P.F-BF.A.1 Write a function that describes a relationship between two quantities. c. Compose functions. For example, if <math>T(y)</math> is the temperature in the atmosphere as a function of height, and <math>h(t)</math> is the height of a weather balloon as a function of time, then <math>T(h(t))</math> is the temperature at the location of the weather balloon as a function of time. A2.F-BF.A.1 Write a function that describes a relationship between two quantities. Include problem-solving opportunities utilizing real-world context. Functions include linear, quadratic, exponential, polynomial, logarithmic, rational, sine, cosine, tangent, square root, cube root, and piecewise-defined functions.</p>

Thursday	Notes:	<p>Objective: Students will be able to apply exponential and log functions to real-world problems.</p> <p>Lesson Overview:</p> <p>Notes: Cover as many different topics as time allows: compound interest (solving for final amount and solving for time), radioactive decay (solving for amount and solving for time), and doubling situations (solving for population and solving for time).</p>	<p>Academic Standards:</p> <p>P.F-BF.A.1 Write a function that describes a relationship between two quantities. c. Compose functions. For example, if <math>T(y)</math> is the temperature in the atmosphere as a function of height, and <math>h(t)</math> is the height of a weather balloon as a function of time, then <math>T(h(t))</math> is the temperature at the location of the weather balloon as a function of time.</p> <p>A2.F-BF.A.1 Write a function that describes a relationship between two quantities. Include problem-solving opportunities utilizing real-world context. Functions include linear, quadratic, exponential, polynomial, logarithmic, rational, sine, cosine, tangent, square root, cube root, and piecewise-defined functions.</p>
Friday	Notes:	<p>Objective: Students will be able to apply exponential and log functions to real-world problems.</p> <p>Lesson Overview:</p> <p><i>This is a continuation of yesterday's lesson.</i></p> <p>Notes: Cover as many different topics as time allows: compound interest (solving for final amount and solving for time), radioactive decay (solving for amount and solving for time), and doubling situations (solving for population and solving for time).</p>	<p>Academic Standards:</p> <p>P.F-BF.A.1 Write a function that describes a relationship between two quantities. c. Compose functions. For example, if <math>T(y)</math> is the temperature in the atmosphere as a function of height, and <math>h(t)</math> is the height of a weather balloon as a function of time, then <math>T(h(t))</math> is the temperature at the location of the weather balloon as a function of time.</p> <p>A2.F-BF.A.1 Write a function that describes a relationship between two quantities. Include problem-solving opportunities utilizing real-world context. Functions include linear, quadratic, exponential, polynomial, logarithmic, rational, sine, cosine, tangent, square root, cube root, and piecewise-defined functions.</p>