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Pre-AP Calculus HS Math Lesson Plan: U2L14

Preview of the Week:

Monday	Tuesday	Wednesday	Thursday	Friday
Lesson 2.12 **SWBAT** determine the number of solutions to, and solve, a system of linear and quadratic equations.	**Lesson 2.13** **SWBAT** define the process of polynomial division, and identify when the process of synthetic division can be used a method when a polynomial is divided by a linear binomial with an a coefficient of 1. **SWBAT** use synthetic division to write a quotient of polynomials, $a(x)/b(x)$, in the form $q(x) + r(x)/b(x)$, where (x), $b(x)$, $q(x)$, and $r(x)$ are polynomials with the degree of $r(x)$ less than the degree of $b(x)$.	**Lesson 2.14** **Unit II Review Lesson** [Teacher Specific Planned]	**Lesson 2.15** **Unit II Test**	**Lesson 3.01** **SWBAT** determine the end behavior limit of a rational function, and explain what the limit tells you about the horizontal asymptote of the function. **SWBAT** explain connections between the end behavior limits of polynomial functions, which are always infinite, and rational functions, which can approach a limiting value based on a horizontal asymptote. **SWBAT** find all vertical and horizontal asymptotes of a rational function.

Suggested Float:

- Flex lesson on simplifying rational expressions:
  - **SWBAT** find the product or quotient of two rational expressions, including complex fractions, by simplifying using factoring methods.
  - **SWBAT** find the sum or difference of two rational expressions by factoring and using the least common denominator.

L3: Wednesday

Lesson Objectives

- **Unit II Review Lesson [Teacher Specific Planned]**