

Conceptual Unit 6: Rational Functions

Lesson 1.3: Models and Applications

Day	Content	Slide(s)
Day 1 5 days	PowerPoint Lesson	3-20
	Annotated PowerPoint	21-39
	Video	40

Objectives
(Explanation of the words)

- Solve single rational equations in one variable by:
 - eliminating denominators by multiplying all terms by the common denominator
 - identifying rational equations that are proportion and solve by cross-multiplying
- Analyze how the slope of a line is the constant coefficient in an **exponential equation**.
- Identifying **extraneous solutions** by substituting the solutions in the data sets.
- Write and solve a rational equation to solve a real-world problem.
- Understand the **relationship** in the **data sets** of solutions when working with rational equations in a real-world context.
For example, if two solutions are found from a rational equation, one solution is usually extraneous and the other is the actual solution, along with any domain restrictions for the rational equation.
- Solve a formula (rational equation) for a specified variable.

Students will be able to solve rational equations by eliminating denominators, cross-multiplying, and identifying extraneous solutions.

Learning Goal

Learning Goal: Students will be able to write and solve rational equations.

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