

Domain	Functions and Modeling	
Cluster	Explore expressions, functions, and models to describe numbers or relationships.	
Standard(s)	M.ASHS.19	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise. Instructional Note: Extend to simple rational and radical equations.

Content Examples

- » [Rational equations intro](#)
- » [Extraneous solutions](#)
- » [Equations with rational expressions](#)
- » [Equations with rational expressions \(more challenging\)](#)
- » [Intro to solving square root equations and extraneous solutions](#)

Relevant Content

Vocabulary

- » Rational equation: An equation that involves one or more rational expressions
- » Radical equation: An equation that involves one or more radical expressions
- » Extraneous solution: A solution that does not satisfy the original equation

[Solving Rational Equations](#)

[Solve Simple Radical Equations](#)

Evaluating Statements about Radicals:

<https://www.map.mathshell.org/lessons.php?unit=9115&collection=8>

Assessment Links or Tasks

- » Solving Rational Equations Project:
<https://kalamitykat.com/2010/02/21/solving-rational-equations-project/>
- » Evaluating Statements about Radicals:
<https://www.map.mathshell.org/download.php?fileid=1714>
- » An Extraneous Solution:
<https://tasks.illustrativemathematics.org/content-standards/HSA/REI/A/2/tasks/1927>
- » Extraneous Solutions:
<https://education.ti.com/en/timathnspired/us/detail?id=4251F38ABB3145F9BE8082AA4EE0D549&t=42257C207BF44A2088A18F8D03F71028>

