Solving Rational and Radical Equations

Today's Standard

HSA.REI.A2 - Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.

Cues	Notes
Rational Equations Radical Equations Extraneous Solutions Verification of Solutions Common Misconceptions	Rational equations involve fractions with polynomials in the numerator and denominator. Radical equations involve roots, such as square roots or cube roots. Extraneous solutions are results that do not satisfy the original equation. Always verify solutions by substituting them back into the original equation. Misconception: All solutions are valid; Misconception: Extraneous solutions are calculation errors.

Summary

Solving rational and radical equations requires understanding and identifying extraneous solutions. Verification of solutions is crucial to ensure accuracy.