



Solving Systems of Equations

Today's Standard

HSA.REI.C5 - Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions.

Cues	Notes
What is a system of equations?	A system of equations consists of two or more equations with the same variables.
How does replacing an equation affect the solution?	Replacing one equation by the sum of it and a multiple of the other does not change the solution set.
What is the elimination method?	The elimination method involves adding or subtracting equations to eliminate one variable.
Why is this concept important?	Understanding this concept is crucial for solving complex systems efficiently.

Summary

This standard teaches that replacing one equation in a system with the sum of that equation and a multiple of another does not change the solution set, which is essential for solving systems of equations efficiently.