

Solving Systems with Matrix Inversion

Today's Standard

HSA.REI.C9 - (+) Find the inverse of a matrix if it exists and use it to solve systems of linear equations (using technology for matrices of dimension 3×3 or greater).

Real-World Applications for this Standard

Cryptography and secure communications; Computer graphics transformations; Economic modeling; Engineering and physics simulations; Network analysis

Today I Learned

Today, we learned how to find the inverse of a matrix and use it to solve problems. This helps us solve complex math problems easily.

Common Stumbling Blocks

Some students think all matrices have inverses, but that's not true. Only certain matrices do. Others mix up inversion and transposition, which are different things.

Quiz Me

- What is a matrix?
- What does it mean to invert a matrix?
- Why do we need the determinant?
- Can all matrices be inverted?
- What is one real-world use of matrix inversion?

Help Me

Inverting a matrix helps solve problems in real life, like making secure codes or designing computer graphics. It's like finding a magic key that unlocks solutions.