edX

1. Solving linear systems

Objectives

- Think of an m by n matrix as a function from $\mathbb{R}^n$ to $\mathbb{R}^m$.

- Find matrix representations of linear functions from $\mathbb{R}^n$ to $\mathbb{R}^n$.

- Create **augmented matrices.**

- Solve systems of linear equations in matrix form using **row operations** instead of **equation operations** on the system.

- Find the **pivots** of a matrix and put a matrix into **row echelon form** .

- Use **back substitution** to obtain a solution to a linear system from a row echelon form of the augmented matrix.

- Use **Gauss-Jordan elimination** to find the **reduced row echelon form `rref`** form of a matrix.

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