Gaussian Elimination Solution

System of Linear Equations - Step-by-Step Solution

Input Matrix (Augmented Form)



Unique Solution Found

Solution:

x1 = 1/4

x2 = -3/4

x3 = 3/4

Step-by-Step Solution

Step 1: Initial Matrix



Step 2: R1 ↔ R3



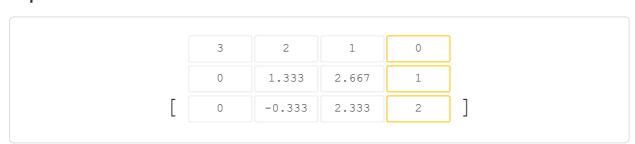
Step 3: R2 = R2 - (0.667)R1



Step 4: R3 = R3 - (0.333)R1



Step 5: R2 ↔ **R3**



Generated by gaussianeliminationcalculator.com

Step 6: R3 = R3 - (-0.250)R2



Final Matrix (Row Echelon Form)

3 2 1 0
0 1.333 2.667 1
[0 0 3 2.25