

Homework 3

HU YAQI

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1 Problem 1

Using Jacobi method and Gauss-Seidel method to $x_1^{(k)}$ and $x_2^{(k)}$ when $k=0,1,2$.
The equations are as follows:

E1: $10x_1 - x_2 + 2x_3 = 6$

E2: $-x_1 + 11x_2 - x_3 + 3x_4 = 25$

E3: $2x_1 - x_2 + 10x_3 - x_4 = -11$

E4: $3x_2 - x_3 + 8x_4 = 15$