

Lab 4 MM5016

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1 Problems

Uppgift 1.1 (System 1). Use Gaussian elimination to solve the system of linear equations

$$\begin{aligned}x_1 + 5x_2 &= 7 \\ -2x_1 - 7x_2 &= -5.\end{aligned}$$

Uppgift 1.2 (System 2). Use Gaussian elimination to solve the system of linear equations

$$\begin{aligned}x_1 - 2x_2 - 6x_3 &= 12 \\ 2x_1 + 4x_2 + 12x_3 &= -17 \\ x_1 - 4x_2 - 12x_3 &= 22.\end{aligned}$$

Uppgift 1.3 (System 3). Use Gaussian elimination to solve the system of linear equations

$$\begin{aligned}x_1 - 2x_2 - 6x_3 &= 12 \\ 2x_1 + 4x_2 + 12x_3 &= -17 \\ x_1 - 4x_2 - 12x_3 &= 22.\end{aligned}$$