

### Homework #1F

Solve the following system of linear equations

$$\begin{aligned}3x_1 - 5x_2 - 4x_3 - x_4 &= 28, \\-4x_2 + 3x_3 - 4x_4 &= 41, \\2x_1 + 3x_2 + 3x_3 - 3x_4 &= 11, \\-2x_1 + 2x_2 - 5x_3 - 4x_4 &= -21.\end{aligned}$$

- a) Using Naïve Gaussian elimination method.
- b) Using Gaussian elimination method with partial pivoting.