

## Homework #2F

Solve the following system of linear equations

$$\begin{aligned}4x_1 + 4x_2 + x_3 &= 5, \\ -2x_1 + x_2 + x_3 &= -1, \\ -5x_1 - 4x_2 + 2x_3 &= -14\end{aligned}$$

- a) Using **Doolittle** factorization method.
- b) Using **Crout** factorization method.