

HOMEWORK 5-PART B+C

1. Solve the following linear system $Ay = b$.

$$A = \begin{pmatrix} 4 & 2 & -1 \\ -14 & -8 & 18 \\ -3 & -2 & 4 \end{pmatrix} \text{ and } b = \begin{pmatrix} -5 \\ 16 \\ 3 \end{pmatrix}.$$

2. Solve the following linear system $Ay = b$.

$$A = \begin{pmatrix} 2 & -3 & -2 & 2 \\ -4 & 4 & 0 & 3 \\ 8 & -8 & -1 & -7 \end{pmatrix} \text{ and } b = \begin{pmatrix} -4 \\ -7 \\ 13 \end{pmatrix}.$$

3. Solve the following linear system $Ay = b$.

$$A = \begin{pmatrix} -2 & 3 & 6 & -7 & -1 \\ -1 & -6 & 1 & -6 & -8 \\ 0 & -9 & -5 & -1 & 9 \end{pmatrix} \text{ and } b = \begin{pmatrix} 3 \\ 1 \\ 16 \end{pmatrix}.$$