

1. (10 points) Consider the following system of linear equations:

(a) Write the coefficient matrix A and the vector b .

Solution: The coefficient matrix A is $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 1 & 1 \\ 3 & 1 & 1 \end{bmatrix}$ and the vector b is $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$.

(b) Use Gaussian elimination to solve the system. Show all steps.

- (i) $\begin{bmatrix} 1 & 2 & 3 & 1 \\ 2 & 1 & 1 & 2 \\ 3 & 1 & 1 & 3 \end{bmatrix} \xrightarrow{R_2 - 2R_1} \begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -3 & -5 & 0 \\ 3 & 1 & 1 & 3 \end{bmatrix}$
- (ii) $\begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -3 & -5 & 0 \\ 0 & -5 & -8 & 0 \end{bmatrix} \xrightarrow{R_3 - R_2} \begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -3 & -5 & 0 \\ 0 & -2 & -3 & 0 \end{bmatrix}$
- (iii) $\begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -3 & -5 & 0 \\ 0 & -2 & -3 & 0 \end{bmatrix} \xrightarrow{R_2 \leftrightarrow R_3} \begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -2 & -3 & 0 \\ 0 & -3 & -5 & 0 \end{bmatrix}$
- (iv) $\begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -2 & -3 & 0 \\ 0 & -3 & -5 & 0 \end{bmatrix} \xrightarrow{R_3 - R_2} \begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -2 & -3 & 0 \\ 0 & -1 & -2 & 0 \end{bmatrix}$
- (v) $\begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -2 & -3 & 0 \\ 0 & -1 & -2 & 0 \end{bmatrix} \xrightarrow{R_2 \leftrightarrow R_3} \begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -1 & -2 & 0 \\ 0 & -2 & -3 & 0 \end{bmatrix}$
- (vi) $\begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -1 & -2 & 0 \\ 0 & -2 & -3 & 0 \end{bmatrix} \xrightarrow{R_3 - 2R_2} \begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -1 & -2 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$
- (vii) $\begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & -1 & -2 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix} \xrightarrow{R_2 \times (-1)} \begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & 1 & 2 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$
- (viii) $\begin{bmatrix} 1 & 2 & 3 & 1 \\ 0 & 1 & 2 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix} \xrightarrow{R_1 - 2R_2} \begin{bmatrix} 1 & 0 & -1 & 1 \\ 0 & 1 & 2 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$
- (ix) $\begin{bmatrix} 1 & 0 & -1 & 1 \\ 0 & 1 & 2 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix} \xrightarrow{R_1 + R_3} \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 2 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$
- (x) $\begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 2 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix} \xrightarrow{R_2 - 2R_3} \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$

The solution is $x = 1, y = 0, z = 0$.

(c) Use the inverse of A to solve the system.

Solution: The inverse of A is $A^{-1} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$.

(d) Find the rank of A .

Solution: The rank of A is 3, since A is invertible.

(e) Find the null space of A . Show all steps.

Solution: The null space of A is $\{0\}$, since A is invertible.

(f) Find the column space of A . Show all steps.

Solution: The column space of A is $\mathbb{R}^3$, since A is invertible.

(g) Find the row space of A . Show all steps.

Solution: The row space of A is $\mathbb{R}^3$, since A is invertible.

2. (10 points) Consider the following system of linear equations:

(a) Write the coefficient matrix A and the vector b .

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B Lingard



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