

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 and the final solution.

- (i) $\begin{bmatrix} 1 & 2 & 3 & | & 1 \\ 2 & 1 & 1 & | & 2 \\ 3 & 1 & 1 & | & 3 \end{bmatrix}$
- (ii) $\begin{bmatrix} 1 & 2 & 3 & | & 1 \\ 0 & -3 & -5 & | & 0 \\ 0 & -5 & -8 & | & 0 \end{bmatrix}$
- (iii) $\begin{bmatrix} 1 & 2 & 3 & | & 1 \\ 0 & -3 & -5 & | & 0 \\ 0 & -5 & -8 & | & 0 \end{bmatrix}$
- (iv) $\begin{bmatrix} 1 & 2 & 3 & | & 1 \\ 0 & -3 & -5 & | & 0 \\ 0 & -5 & -8 & | & 0 \end{bmatrix}$
- (v) $\begin{bmatrix} 1 & 2 & 3 & | & 1 \\ 0 & -3 & -5 & | & 0 \\ 0 & -5 & -8 & | & 0 \end{bmatrix}$
- (vi) $\begin{bmatrix} 1 & 2 & 3 & | & 1 \\ 0 & -3 & -5 & | & 0 \\ 0 & -5 & -8 & | & 0 \end{bmatrix}$

After row 2 is $\begin{bmatrix} 0 & -3 & -5 & | & 0 \end{bmatrix}$

Row 3 is $\begin{bmatrix} 0 & -5 & -8 & | & 0 \end{bmatrix}$

Row 2 is $\begin{bmatrix} 0 & -3 & -5 & | & 0 \end{bmatrix}$

(c) Find the rank of A .

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

(d) Find the null space of A . Show all steps and the final solution.

(e) Suppose x is a vector in the null space of A . Find x such that $x_1 = 1$ and $x_2 = 2$.

Solution: $x = \begin{bmatrix} 1 \\ 2 \\ -1 \end{bmatrix}$ is a vector in the null space of A .

(f) Suppose x is a vector in the null space of A . Find x such that $x_1 = 1$ and $x_2 = 2$.

Solution: $x = \begin{bmatrix} 1 \\ 2 \\ -1 \end{bmatrix}$ is a vector in the null space of A .

(g) Suppose x is a vector in the null space of A . Find x such that $x_1 = 1$ and $x_2 = 2$.

2. (10 points) Suppose A is a matrix and x is a vector. Find Ax .

3. (10 points) Suppose A is a matrix and x is a vector. Find Ax .

Holt Chemistry Concept Review Electrolytic

Terry C. Jones



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