

Solutions to Linear Algebra Practice Problems

1. Find all solutions to the following systems of linear equations.

$$(a) \quad \begin{aligned} x_1 - 2x_2 + 2x_3 &= 5 \\ x_1 - x_2 &= -1 \\ -x_1 + x_2 + x_3 &= 5 \end{aligned}$$

$$(b) \quad \begin{aligned} x_1 + x_2 + 3x_3 &= 3 \\ -x_1 + x_2 + x_3 &= -1 \\ 2x_1 + 3x_2 + 8x_3 &= 4 \end{aligned}$$

Answer:

- (a) We create the augmented matrix and row reduce:

$$\left[\begin{array}{ccc|c} 1 & -2 & 2 & 5 \\ 1 & -1 & 0 & -1 \\ -1 & 1 & 1 & 5 \end{array} \right] \longrightarrow \left[\begin{array}{ccc|c} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 4 \end{array} \right]$$

Thus, the solutions are $\boxed{x_1 = 1, x_2 = 2, x_3 = 4}$

- (b) We create the augmented matrix and row reduce:

$$\left[\begin{array}{ccc|c} 1 & 1 & 3 & 3 \\ -1 & 1 & 1 & -1 \\ 2 & 3 & 8 & 4 \end{array} \right] \longrightarrow \left[\begin{array}{ccc|c} 1 & 1 & 3 & 3 \\ 0 & 1 & 2 & 1 \\ 0 & 0 & 0 & -3 \end{array} \right]$$

This system is inconsistent. $\boxed{\text{There are no solutions.}}$

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