

Linear Algebra Practice Problems

- (1) Consider the following system of linear equations in the variables x , y , and z , in which the constants a and b are real numbers.

$$\begin{aligned} 2x - 3y + 2z &= a \\ -by + 3z &= 3 \\ x - y - z &= a + b. \end{aligned}$$

For what values of a and b will the system have infinitely many solutions? A unique solution? No solutions? **Make sure to answer each part of the question.**

- (2) a) Find all solutions to the linear system with the following augmented coefficient matrix.

$$\left(\begin{array}{ccc|c} 1 & 1 & 0 & 3 \\ 2 & 3 & 1 & 2 \\ 0 & 2 & 2 & -8 \end{array} \right)$$

b) List one numerical solution to the above system of equations, and check that your solution satisfies the system.

- (3) In each case, find the reduced row echelon form of the given system of equations, and describe the solution set in parametric form.

$$\begin{array}{lcl} \begin{array}{rclcl} x_1 & +x_2 & +2x_3 & = & 1 \\ \text{a) } 3x_1 & +3x_2 & +3x_3 & = & 9 \\ 4x_1 & +4x_2 & +5x_3 & = & 10 \end{array} & \text{b) } & \begin{array}{rclcl} 3x_1 & +2x_2 & -x_3 & +x_4 & = & 0 \\ 2x_1 & & +x_3 & -2x_4 & = & 7 \\ x_1 & +x_2 & -4x_3 & & = & 1 \\ 4x_1 & +x_2 & 4x_3 & -x_4 & = & 6 \end{array} \end{array}$$

$$\begin{array}{rclcl} x_1 & + & x_2 & + & 2x_3 & + & 3x_4 & = & 1 \\ \text{c) } 3x_1 & + & 3x_2 & + & 6x_3 & + & 12x_4 & = & 6 \\ 2x_1 & + & 2x_2 & + & 4x_3 & + & 7x_4 & = & 3 \end{array}$$

- (4) For each of the following systems of linear equations, determine if there are no solutions, a unique solution, or infinitely many solutions. If there are infinitely many solutions, find the parametric form for the solution set.

$$\begin{array}{lcl} \text{a) } \left(\begin{array}{ccc|c} 1 & 1 & 0 & 1 \\ 0 & 1 & 1 & -4 \\ 4 & 6 & 2 & -4 \end{array} \right) & \text{b) } & \left(\begin{array}{ccc|c} 1 & 1 & 0 & 1 \\ 0 & 1 & 2 & 1 \\ 2 & 4 & 4 & 2 \end{array} \right) \end{array}$$

- (5) In each case, describe all solutions to the linear system $A \vec{\mathbf{x}} = \vec{\mathbf{b}}$.

$$\text{a) } A = \begin{pmatrix} 1 & -2 & 0 & 1 \\ 0 & 0 & 1 & -3 \\ 1 & -2 & 1 & -2 \end{pmatrix} \text{ and } \vec{\mathbf{b}} = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$$

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