

Review 1: L1-L6

1. Determine whether the system is consistent. If yes, find the solution set.

$$2x_1 - 4x_2 = -10$$

$$3x_1 + 3x_2 = 0$$

$$x_1 + 4x_2 = -1$$

$$-3x_1 + 2x_2 + 3x_3 + x_4 = 5$$

2. Determine the value(s) of b such that the system, whose augmented matrix is given below, is consistent.

$$\left[\begin{array}{cc|c} -2 & 6 & 3 \\ 4 & -12 & b \end{array} \right]$$

3. Given the augmented matrix of a linear system. Row reduce the matrix to the reduced echelon form. Highlight the pivot positions in the reduced matrix. Is the system consistent? Justify your answer.

$$\left[\begin{array}{cccc|c} 1 & 2 & 4 & 5 & 5 \\ 2 & 4 & 8 & 1 & 1 \\ 4 & 5 & 1 & 2 & 2 \end{array} \right]$$

4. Given two vectors, $\mathbf{u} = \begin{bmatrix} -1 \\ 3 \end{bmatrix}$ and $\mathbf{v} = \begin{bmatrix} 2 \\ 4 \end{bmatrix}$. Answer the questions below. Where it is possible, give both geometric and analytic justifications.

(a) Graph the vectors. Find and graph $2\mathbf{u} + \frac{1}{2}\mathbf{v}$.

(b) Does the set $\{\mathbf{u}, \mathbf{v}\}$ span $\mathbb{R}^2$?

Consider set $\{\mathbf{u}, \mathbf{v}, \mathbf{w}\}$ where $\mathbf{w} = \begin{bmatrix} 1 \\ -1 \end{bmatrix}$ and $\mathbf{u}$ and $\mathbf{v}$ are defined above.

(c) Does the set $\{\mathbf{u}, \mathbf{v}, \mathbf{w}\}$ span $\mathbb{R}^2$?

5. (a) Determine if $\mathbf{b}$ is a linear combination of the vectors formed by the columns of the matrix A .

$$A = [\mathbf{a}_1 \ \mathbf{a}_2 \ \mathbf{a}_3] = \begin{bmatrix} 1 & 0 & 5 \\ -2 & 1 & -6 \\ 0 & 2 & 8 \end{bmatrix}, \quad \mathbf{b} = \begin{bmatrix} 2 \\ -1 \\ 6 \end{bmatrix}$$

(b) If yes, give the solution to the corresponding linear system in the parametric vector form. Represent vector $\mathbf{b}$ as a linear combination of the columns of the matrix

$A = [\mathbf{a}_1 \ \mathbf{a}_2 \ \mathbf{a}_3]$, assuming that the parameter $x_1 = 0$. Is this the only representation possible?

(c) Do the columns of the matrix A span $\mathbb{R}^3$? Explain your answer by observing an echelon form of the matrix A .

6. Rewrite the matrix equation $A\mathbf{x} = \mathbf{b}$ in equivalent forms: (a) as a vector equation, (b) as a system of linear equations.

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DJ Losen



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