Linear Algebra Practice Problems

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

$$2x - 3y + 2z = a$$

 $-by + 3z = 3$
 $x - y - z = a + b$.

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.

$$\begin{pmatrix} 1 & 1 & 0 & 3 \\ 2 & 3 & 1 & 2 \\ 0 & 2 & 2 & -8 \end{pmatrix}$$

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.

(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.

a)
$$\begin{pmatrix} 1 & 1 & 0 & 1 \\ 0 & 1 & 1 & -4 \\ 4 & 6 & 2 & -4 \end{pmatrix}$$
 b) $\begin{pmatrix} 1 & 1 & 0 & 1 \\ 0 & 1 & 2 & 1 \\ 2 & 4 & 4 & 2 \end{pmatrix}$

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

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

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Ensheng Dong

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