

Math 4A, Practice Midterm

1. Determine the number of solutions to the following systems of linear equations (none, one, or infinitely many). If there are infinitely many solutions, write that solution in parametric vector form. Describe the solution set if it is a subset of a particular vector space, with dimension m , if it is.

- (a)
$$\begin{cases} x + y + z = 1 \\ x + y + 2z = 2 \\ 2x + y + 3z = 3 \end{cases}$$
- (b)
$$\begin{cases} x_1 + x_2 + x_3 = 4 \\ 2x_1 + x_2 + x_3 = 1 \end{cases}$$
- (c)
$$\begin{cases} x_1 + 2x_2 = 4 \\ 2x_1 + 3x_2 = 6 \\ x_1 + x_2 = 2 \\ x_1 + 2x_2 = 4 \end{cases}$$

2. The augmented matrix for a linear system is shown. Find all systems of 3 that make this system consistent.

- (a)
$$\left[\begin{array}{ccc|c} 1 & 2 & 3 & 4 \\ 2 & 4 & 6 & 8 \end{array} \right]$$
- (b)
$$\left[\begin{array}{ccc|c} 1 & 2 & 3 & 4 \\ 2 & 4 & 6 & 8 \\ 3 & 6 & 9 & 12 \end{array} \right]$$
- (c)
$$\left[\begin{array}{ccc|c} 1 & 2 & 3 & 4 \\ 2 & 4 & 6 & 8 \\ 3 & 6 & 9 & 12 \end{array} \right]$$

3. Consider the solution set of the given system in terms of free variables of the augmented matrix. Find an explicit basis subspace(s) of the solution set space, the column space.

$$\left[\begin{array}{ccc|c} 1 & 2 & 3 & 4 \\ 2 & 4 & 6 & 8 \\ 3 & 6 & 9 & 12 \end{array} \right]$$

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