

Question 10

Prove that the system of linear equations has no solution, one solution or infinitely many solutions, depending on the value of the parameter a . For each case, find the solution set if it exists.

Figure 10

	x_1	x_2	x_3
(1)	$x_1 + x_2 + x_3 = 1$		
(2)	$x_1 + x_2 + x_3 = a$		
(3)	$x_1 + x_2 + x_3 = 1$		

Figure 10

Problem 10 (Medium) Prove that the system of linear equations has no solution, one solution or infinitely many solutions, depending on the value of the parameter a .

Solution

The system of linear equations can be written in matrix form as $A\mathbf{x} = \mathbf{b}$, where $A = \begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$, $\mathbf{x} = \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix}$, and $\mathbf{b} = \begin{pmatrix} 1 \\ a \\ 1 \end{pmatrix}$. The rank of A is 1, since all rows are identical. The rank of \mathbf{b} is 1 if $a = 1$ and 2 otherwise. If $a = 1$, the system has infinitely many solutions. If $a \neq 1$, the system has no solution.

$$\mathbf{x} = \begin{pmatrix} 1 - x_2 - x_3 \\ x_2 \\ x_3 \end{pmatrix}$$

If $a = 1$, the system has infinitely many solutions. The solution set is $\mathbf{x} = \begin{pmatrix} 1 - x_2 - x_3 \\ x_2 \\ x_3 \end{pmatrix}$, where x_2 and x_3 are free variables.

Question 11

Applied Microeconomics Problem Set With Solutions

Annelies Wilder-Smith



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