

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.

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 augmented matrix is $[A | \mathbf{b}] = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & a \\ 1 & 1 & 1 & 1 \end{pmatrix}$. Row 2 minus Row 1 gives $\begin{pmatrix} 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & a-1 \\ 1 & 1 & 1 & 1 \end{pmatrix}$. Row 3 minus Row 1 gives $\begin{pmatrix} 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & a-1 \\ 0 & 0 & 0 & 0 \end{pmatrix}$. If $a \neq 1$, the system has no solution. If $a = 1$, the system has infinitely many solutions. The solution set is $\{(x_1, x_2, x_3) \mid x_1 + x_2 + x_3 = 1\}$.

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

When $a = 1$, the system has infinitely many solutions. The solution set is $\{(x_1, x_2, x_3) \mid x_1 + x_2 + x_3 = 1\}$.

Question 11

Applied Microeconomics Problem Set With Solutions

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