

# Assignment 2

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## 1 Question No. 55

Examine the consistency of the system of given equations:

$$x + y + z = 1 \quad (1.0.1)$$

$$2x + 3y + 2z = 2 \quad (1.0.2)$$

$$ax + ay + 2az = 4 \quad (1.0.3)$$

## 2 Answer

The above system of equations can be expressed in the form of matrix:

$$\begin{pmatrix} 1 & 1 & 1 \\ 2 & 3 & 2 \\ a & a & 2a \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \\ 4 \end{pmatrix} \quad (2.0.1)$$

The above system will be consistent only if

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