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## Mathematics

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(Chapter - 4) (Determinants)

(Class 12)

### Answer 4:

$$x + y + z = 1$$

The given system of equations:  $2x + 3y + 2z = 2$

$$ax + ay + 2az = 4$$

This system of equations can be written as  $AX = B$ , where

$$A = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 3 & 2 \\ a & a & 2a \end{bmatrix}, X = \begin{bmatrix} x \\ y \\ z \end{bmatrix} \text{ and } B = \begin{bmatrix} 1 \\ 2 \\ 4 \end{bmatrix}$$

$$|A| = 1(6a - 2a) - 1(4a - 2a) + 1(2a - 3a) = a \neq 0$$

$\Rightarrow A$  is non-singular and so  $A^{-1}$  exists. Now,

Hence, the system of equations are consistent.

### Question 5:

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

$$2y - z = -1$$

$$3x - 5y = 3$$

### Answer 5:

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

The given system of equations:  $2y - z = -1$

$$3x - 5y = 3$$

This system of equations can be written as  $AX = B$ , where

$$A = \begin{bmatrix} 3 & -1 & -2 \\ 0 & 2 & -1 \\ 3 & -5 & 0 \end{bmatrix}, X = \begin{bmatrix} x \\ y \\ z \end{bmatrix} \text{ and } B = \begin{bmatrix} 2 \\ -1 \\ 3 \end{bmatrix}$$

$$|A| = 3(0 - 5) + 1(0 + 3) - 2(0 - 6) = -15 + 3 + 12 = 0$$

$\Rightarrow A$  is a singular matrix and so  $A^{-1}$  does not exist. Now,

$$A_{11} = -5$$

$$A_{12} = -3$$

$$A_{13} = -6$$

$$A_{21} = 10$$

$$A_{22} = 6$$

$$A_{23} = 12$$

$$A_{31} = 5$$

$$A_{32} = 3$$

$$A_{33} = 6$$

$$\text{adj } A = \begin{bmatrix} -5 & 10 & 5 \\ -3 & 6 & 3 \\ -6 & 12 & 6 \end{bmatrix}$$

$$(\text{adj } A)B = \begin{bmatrix} -5 & 10 & 5 \\ -3 & 6 & 3 \\ -6 & 12 & 6 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \\ 3 \end{bmatrix} = \begin{bmatrix} -10 - 10 + 15 \\ -6 - 6 + 9 \\ -12 - 12 + 16 \end{bmatrix} = \begin{bmatrix} -5 \\ -3 \\ -6 \end{bmatrix} \neq 0$$

So, there is no solutions of the given system of equations.

Hence, the system of equations are inconsistent.

### Question 6:

$$5x - y + 4z = 5$$

$$2x + 3y + 5z = 2$$

$$5x - 2y + 6z = -1$$

### Answer 6:

$$5x - y + 4z = 5$$

The given system of equations:  $2x + 3y + 5z = 2$

$$5x - 2y + 6z = -1$$

This system of equations can be written as  $AX = B$ , where

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