

$$x_2 = \frac{1}{2}z_3 - \frac{1}{2}x_3 = \frac{1}{2}z_3 - \frac{1}{2}z_3 + \frac{3}{2}x_1$$

Then 
$$z_2 = \frac{1}{2}z_3 - \frac{1}{2}z_3 + \frac{3}{2}x_1 - 2x_1 + z_3$$

$$x_1 = z_1 - 2z_2 + z_3$$

Now 
$$x_3 = z_1 - 3x_1 = z_1 - 3(z_1 - 2z_2 + z_3)$$

$$x_3 = -2z_1 + 6z_2 - 3z_3$$

and, 
$$x_2 = \frac{1}{2}z_3 - \frac{1}{2}x_3$$

$$x_2 = z_1 - 3z_2 + 2z_3$$

or, 
$$x = \begin{bmatrix} 1 & -2 & 1 \\ 1 & -3 & 2 \\ 2 & 6 & -3 \end{bmatrix} z$$

Also,  $x = A^{-1}z$

$$A^{-1} = \begin{bmatrix} 1 & -2 & 1 \\ 1 & -3 & 2 \\ 2 & 6 & -3 \end{bmatrix}$$

Now, we will find the inverse of matrix A using elementary row operations.

**Solution:**

$$[A : I] = \begin{bmatrix} 1 & -2 & 1 & 1 & 0 & 0 \\ 1 & -3 & 2 & 0 & 1 & 0 \\ 2 & 6 & -3 & 0 & 0 & 1 \end{bmatrix}$$

$$[A : I] \xrightarrow{R_2 - R_1} \begin{bmatrix} 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & -1 & 1 & -1 & 1 & 0 \\ 2 & 6 & -3 & 0 & 0 & 1 \end{bmatrix}$$

$$[A : I] \xrightarrow{R_3 - 2R_1} \begin{bmatrix} 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & -1 & 1 & -1 & 1 & 0 \\ 0 & 10 & -5 & -2 & 0 & 1 \end{bmatrix}$$

$$[A : I] \xrightarrow{R_2 \times (-1)} \begin{bmatrix} 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & 1 & -1 & 1 & -1 & 0 \\ 0 & 10 & -5 & -2 & 0 & 1 \end{bmatrix}$$

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**JE Gale**



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