

**REDEMPTION [Gauss-Jordan Elimination]****Solve each system of linear equations using Gauss-Jordan elimination.**

1) 
$$\begin{aligned} -2x - 4y &= 2 \\ 2x - 2y &= 16 \end{aligned}$$

2) 
$$\begin{aligned} -3x + 3y &= 6 \\ -x - 4y &= -18 \end{aligned}$$

3) 
$$\begin{aligned} -x - y - z &= 6 \\ x - 2z &= 6 \\ -4x - 4y - 4z &= 4 \end{aligned}$$

4) 
$$\begin{aligned} -3x - 3y &= 9 \\ -4x - y + 3z &= -6 \\ -5x - 4y + z &= 9 \end{aligned}$$

5) 
$$\begin{aligned} -5x + 3y - 3z &= 8 \\ x - 5y - 3z &= 16 \\ -x + 2y &= -4 \end{aligned}$$

**REDEMPTION [Gauss-Jordan Elimination]****Solve each system of linear equations using Gauss-Jordan elimination.**

1) 
$$\begin{aligned} -2x - 4y &= 2 \\ 2x - 2y &= 16 \end{aligned}$$

$$(5, -3)$$

2) 
$$\begin{aligned} -3x + 3y &= 6 \\ -x - 4y &= -18 \end{aligned}$$

$$(2, 4)$$

3) 
$$\begin{aligned} -x - y - z &= 6 \\ x - 2z &= 6 \\ -4x - 4y - 4z &= 4 \end{aligned}$$

No solution.

4) 
$$\begin{aligned} -3x - 3y &= 9 \\ -4x - y + 3z &= -6 \\ -5x - 4y + z &= 9 \end{aligned}$$

$$(z + 3, -z - 6, z)$$

5) 
$$\begin{aligned} -5x + 3y - 3z &= 8 \\ x - 5y - 3z &= 16 \\ -x + 2y &= -4 \end{aligned}$$

$$(-4, -4, 0)$$