V. Parte

PROBLEMA 69

V. Resulta elsistema dado usando la adjunta

69)
$$\begin{cases} 7x_1 - 8x_2 = 3 \\ 9x_1 + 9x_2 = -8 \end{cases}$$
 $\begin{cases} 7x_1 - 8x_2 = 3 \\ 9x_1 + 9x_2 = -8 \end{cases}$
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 $\begin{cases} 7x_1 - 8x_2 = 3 \end{cases}$
 \begin{cases}

PROBLEMA 70

$$\begin{cases} 3x_1 - x_2 = 0 \\ 4x_1 + 2x_2 = 5 \end{cases}$$

$$\begin{vmatrix} 3 - 1 \\ 4 & 2 \end{vmatrix} = (3)(2) - (-1)(4)$$

$$= 6 + 4$$

$$= 10$$

$$A_{12} = 4$$

$$A_{22} = 3$$

$$A_{32} = 4$$

$$= (-4)$$

$$= (\frac{x_1}{x_2}) = \frac{1}{10} \begin{pmatrix} 2 & 1 \\ -4 & 3 \end{pmatrix} \begin{pmatrix} 0 \\ 5 \end{pmatrix}$$

$$= \frac{1}{10} \begin{pmatrix} 0 + 5 \\ 0 + 15 \end{pmatrix} = \begin{pmatrix} \frac{5}{10} \\ \frac{15}{10} \end{pmatrix}$$

$$\begin{pmatrix} x_1 \\ x_2 \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{3}{2} \end{pmatrix} \text{ (a solution del Sistema es } x_1 = \frac{1}{2}, x_2 = \frac{3}{2}$$

PROBLEMA 71

71)
$$\begin{cases} 2x_1 + x_2 + x_3 = G \\ 3x_1 - 2x_2 - 3x_3 = 5 \\ 8x_1 + 7x_2 + 5x_3 = 11 \end{cases}$$

$$2 \quad 1 \quad 1 \quad 2 \quad (-4) - 1 \quad (34) + 1 \quad (72)$$

$$= -8 - 39 + 22$$

$$A_{11} = -4 \quad A_{21} = -3 \quad A_{31} = -1$$

$$A_{12} = -39 \quad A_{22} = 2 \quad A_{32} = -(-9) = 9$$

$$A_{13} = 27 \quad A_{23} = -(-4) = 4 \quad A_{33} = -7$$

$$= \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = \frac{1}{-25} \begin{pmatrix} -4 & -3 & -1 \\ -39 & 2 & 9 \\ 22 & 4 & -7 \end{pmatrix} \begin{pmatrix} G \\ S \\ 11 \end{pmatrix}$$

$$= \frac{1}{-25} \begin{pmatrix} -74 - 15 - 11 \\ -74 + 10 + 99 \\ 132 + 20 - 77 \end{pmatrix} = \begin{pmatrix} -50 \\ -125 \\ -25 \\ -25 \\ -25 \end{pmatrix}$$

$$\begin{pmatrix} X_1 \\ X_2 \\ X_3 \end{pmatrix} = \begin{pmatrix} 2 \\ 5 \\ -3 \end{pmatrix} \quad (a \text{ solucion del sistema es } X_1 = 2, X_2 = 5$$

$$(a \text{ solucion del sistema es } X_1 = 2, X_2 = 5$$

$$(a \text{ solucion del sistema es } X_1 = 2, X_2 = 5$$

PROBLEMA 72 Y 73

$$\begin{cases}
-5X_{1} + 8X_{2} + 10X_{3} = -8 & A_{1} = -42 & A_{2} = +53 = A_{3} = 70 \\
X_{2} - 2X_{2} = -2 & A_{1} = -6 & A_{2} = +30 & A_{2} = +10
\end{cases}$$

$$A_{12} = 6 & A_{2} = +30 & A_{2} = +10
\end{cases}$$

$$A_{13} = 80 & A_{23} = +130 & A_{23} = +10
\end{cases}$$

$$A_{13} = 80 & A_{23} = +130 & A_{23} = +10
\end{cases}$$

$$A_{13} = 80 & A_{23} = +130 & A_{23} = +10
\end{cases}$$

$$A_{13} = 80 & A_{23} = +130 & A_{23} = +10
\end{cases}$$

$$A_{13} = 80 & A_{23} = +130 & A_{23} = +10
\end{cases}$$

$$A_{13} = 80 & A_{23} = +10
\end{cases}$$

$$A_{14} = 80 & A_{23} = +10
\end{cases}$$

$$A_{15} = 80 & A_{25} = +10$$

$$A_{15} = 80 &$$

PROBLEMA 74

Problema 75

75)
$$(6V_1 - 10V_2 + 4V_3 = -2)$$
 $10V_1 + 7, + 5V_3 = 3$
 $3X_1 + 9_{X_2} + 5X_3 = -7$
 $6 - 10 + 4 = 6(-10) + 10(35) + 4(69)$
 $3 + 9 + 5 = -60 + 350 + 276$
 $A_{12} = -10$
 $A_{22} = -100 + 20 + 20$
 $A_{23} = -100 + 20$
 $A_{24} = -100 + 20$
 $A_{25} = -100 + 20$

Problema 76

Problema 77

$$\begin{vmatrix}
57 \\
-171 \\
304 \\
190
\end{vmatrix} = \begin{pmatrix}
57 \\
-191 \\
-191 \\
-191 \\
-190 \\
-190
\end{vmatrix} = \begin{pmatrix}
-3 \\
9 \\
1304 \\
-16 \\
190 \\
-10
\end{vmatrix} \times 3 = -16$$

$$\times 4 = -10$$