

SISTEMAS DE ECUACIONES LINEALES

$$\begin{array}{l}
 \left. \begin{array}{l} -x + 4y - 3z = 19 \\ \text{a) } 5x - 3y + 2z = -19 \\ 4x - 3y - z = -24 \end{array} \right\} \\
 \text{S.C.D.}(-1,6,2)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 3y - \frac{1}{2}z = \frac{9}{2} \\ \text{b) } 3x - 8y + 4z = -20 \\ \frac{3}{4}x - 5y - 5z = 10 \end{array} \right\} \\
 \text{S.C.D.}(0,1,-3)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 6x + \frac{7}{3}y - z = 6 \\ \text{c) } 4x - 3y + 7z = 56 \\ 2x - 5y - z = 16 \end{array} \right\} \\
 \text{S.C.D.}(3,-3,5)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} -x + 4y - 3z = 1 \\ \text{d) } 2x - 3y + 2z = 1 \\ x + y - z = -4 \end{array} \right\} \\
 \text{S.I.}
 \end{array}$$

$$\begin{array}{l}
 \left. \begin{array}{l} 4x - 12y + z = 0 \\ \text{e) } x - y + 2z = -1 \\ 4x + 4y + 15z = -2 \end{array} \right\} \\
 \text{S.I.}
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 3x + 2y - z = 0 \\ \text{f) } 2x + 4y - 3z = 5 \\ 5x + 6y - 5z = 3 \\ 7x + 10y - 8z = 8 \end{array} \right\} \\
 \text{S.C.D.}\left(-\frac{7}{4}, \frac{29}{8}, 2\right)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 4x - 2y - 3z = 0 \\ \text{g) } 5x + y - z = 5 \\ x + 6y - 2z = -3 \end{array} \right\} \\
 \text{S.C.D.}\left(\frac{125}{89}, -\frac{8}{80}, \frac{172}{89}\right)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} -x + 4y - z = -2 \\ \text{h) } -3y + 4z = 0 \\ -x + y + 3z = -2 \end{array} \right\} \\
 \text{S.C.I.}\left(\frac{6+13\lambda}{3}, \frac{4\lambda}{3}, \lambda\right)
 \end{array}$$

$$\begin{array}{l}
 \left. \begin{array}{l} -2x - 3y - 3z = -5 \\ \text{i) } x - z = 1 \\ -4x + 6y - z = -3 \end{array} \right\} \\
 \text{S.C.D.}\left(\frac{4}{3}, \frac{4}{9}, \frac{1}{3}\right)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 4y - z = -2 \\ \text{j) } 4x + 3y - 4z = 0 \\ -8x - 6y + 8z = 0 \\ 4x + 11y - 6z = -4 \end{array} \right\} \\
 \text{S.C.I.}\left(\frac{6+13\lambda}{16}, \frac{-8+4\lambda}{16}, \lambda\right)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 2y - 3z = 0 \\ \text{k) } 5x + y - z = 3 \\ x + 6y - 2z = -3 \\ 10x + 2y - 2z = 7 \end{array} \right\} \\
 \text{S.I.}
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} y - z = -2 \\ \text{l) } -x + y + z = 0 \\ x - 2z = -2 \end{array} \right\} \\
 \text{S.C.I.}(-2 + 2\lambda, -2 + \lambda, \lambda)
 \end{array}$$

$$\begin{array}{l}
 \left. \begin{array}{l} x - y - z = 0 \\ \text{ll) } x + 2y - 3z = 2 \\ -x + y - 4z = 4 \end{array} \right\} \\
 \text{S.C.D.}\left(-\frac{2}{3}, \frac{2}{15}, -\frac{4}{5}\right)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 2x - 3y - 4z = -22 \\ \text{m) } 2x - y + 4z = 10 \\ x + y - z = 2 \end{array} \right\} \\
 \text{S.C.D.}(1,4,3)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 3x + y - 3z = 1 \\ \text{n) } y - 15z = 2 \\ 6x + 3y - 21z = 4 \end{array} \right\} \\
 \text{S.C.I.}\left(\frac{-1-12\lambda}{3}, 2+15\lambda, \lambda\right)
 \end{array}
 \quad
 \begin{array}{l}
 \left. \begin{array}{l} 14y - 3z = 0 \\ \text{ñ) } 12x + z = 0 \\ 24x + 14y - z = 0 \end{array} \right\} \\
 \text{S.C.I.}\left(-\frac{\lambda}{12}, \frac{3\lambda}{14}, \lambda\right)
 \end{array}$$