

SISTEMAS DE ECUACIONES LINEALES para hacer matricialmente

Clasificar y resolver:

- 1) $\begin{cases} 2x + 3y = 3 \\ x - 2y = 5 \end{cases}$
SCD (3,-1)
- 2) $\begin{cases} 2x + 3y = 1 \\ 5x + 7y = 3 \end{cases}$
SCD (2,-1)
- 3) $\begin{cases} 2x + 4y = 10 \\ 3x + 6y = 15 \end{cases}$
- 4) $\begin{cases} 4x - 2y = 5 \\ -6x + 3y = 1 \end{cases}$
SCI (5-2 α , α)
- 5) $\begin{cases} 2x + 3y = 3 \\ x - 2y = 5 \\ 8x + 3y = 7 \end{cases}$
SI
- 6) $\begin{cases} x + 2y - 3z = -1 \\ 3x - y + 2z = 7 \\ 5x + 3y - 4z = 2 \end{cases}$
S.I.
- 7) $\begin{cases} 2x + y - 2z = 10 \\ 3x + 2y + 2z = 1 \\ 5x + 4y + 3z = 4 \end{cases}$
SCD (759/7,-230,-81/7)
- 8) $\begin{cases} x + 2y - 3z = 6 \\ 2x - y + 4z = 2 \\ 4x + 3y - 2z = 14 \end{cases}$
SCI (4- α ,1+2 α , α)
- 9) $\begin{cases} 2x + 3y - 2z = 5 \\ x - 2y + 3z = 2 \\ 4x - y + 4z = 1 \end{cases}$
SI
- 10) $\begin{cases} x + 2y + 3z = 3 \\ 2x + 3y + 8z = 4 \\ 3x + 2y + 17z = 1 \end{cases}$
SCI (-1-7 α , 2+2 α , α)
- 11) $\begin{cases} x + 2y - z = 0 \\ x - y + z = 1 \\ x + 5y - 3z = -1 \end{cases}$
SCI (2- α /3,-1+2 α /3, α)
- 12) $\begin{cases} 2x + 3y - 2z = 5 \\ x - 2y + 3z = 2 \\ 4x - y + 4z = 1 \end{cases}$
- 13) $\begin{cases} 2x - 3y + 4z = 3 \\ -x + 2y - 3z = -2 \\ 4x - 3y - z = 0 \end{cases}$
SI
- 14) $\begin{cases} x + 3y - 2z = 0 \\ 2x - 3y + z = 0 \\ 3x - 2y + 2z = 0 \end{cases}$
SCD (1,1,1)
- 15) $\begin{cases} x + 3y - 2z = 0 \\ x - 8y + 8z = 0 \\ 3x - 2y + 4z = 0 \end{cases}$
SCD (0,0,0)
- 16) $\begin{cases} x - 3y + 4z - 2t = 5 \\ 2y + 5z + t = 2 \\ 5x - 3y - z = 16 \end{cases}$
SCI (-8 α /11,10/11 α , α)
- 17) $\begin{cases} x + 5y + 4z - 13t = 3 \\ 3x - y + 2z + 5t = 2 \\ 2x + 2y + 3z - 4t = 1 \end{cases}$
SCI (333+385 α /102,-3-71 α /102,21+4 α /51, α)
- 18) $\begin{cases} x + 2y - z + 3t = 3 \\ 2x + 4y + 4z + 3t = 9 \\ 3x + 6y - z + 8t = 10 \end{cases}$
SI
- 19) $\begin{cases} x + 2y - 3z + 2t = 2 \\ 2x + 5y - 8z + 6t = 5 \\ 3x + 4y - 5z + 2t = 4 \end{cases}$
SCI (7-5 β -4 α /2, α ,1+ β /2, β)
- 20) $\begin{cases} x - 2y + 2z = 0 \\ 2x + y - 2z = 0 \\ 3x + 4y - 6z = 0 \\ 3x - 11y + 12z = 0 \end{cases}$
SCI (- α +2 β ,1+2 α -2 β , α , β)
- 21) $\begin{cases} x + 2y + 2z = 2 \\ 3x - 2y - z = 5 \\ 2x - 5y + 3z = -4 \\ x + 4y + 6z = 0 \end{cases}$
SCI (2/5 α ,6/5 α , α)
- 22) $\begin{cases} x + 2y - 2z = 10 \\ 4x - y + z = 4 \\ -2x + y + z = -2 \\ -x - 3y = -11 \end{cases}$
SCD (2,1,-1)
- 23) $\begin{cases} 2x + 4y + 5z = 1 \\ x + 3y + 3z = -1 \\ 4x + 5y + 4z = 2 \\ 3x + 3y + 2z = 2 \\ 2x + 5y - z = -7 \end{cases}$
SCD (5,3,-1)
- 24) $\begin{cases} 2x - y + z - 2t = -5 \\ 2x + 2y - 3z + t = -1 \\ -x + y - z = -1 \\ 4x - 3y + 2z - 3t = -8 \end{cases}$
SCD (2,-2,1)
- 25) $\begin{cases} x + y + z + t = 1 \\ x - y + z + t = 1 \\ x + y - z + t = 1 \\ x + y + z - t = 1 \end{cases}$
SCD (0,1,2,3)
- 26) $\begin{cases} x + y + z + t = 0 \\ x + 2y + 2z = 0 \\ 3x - 2y - z = 5 \\ 2x - 5y + 3z = 4 \end{cases}$
SCD (1,0,0,0)
- 27) $\begin{cases} x + y - z - 2t + 3u = 0 \\ -x + 2y + 2z + 3t - 2u = 0 \\ 2x - y - z + t + u = 0 \\ 2x + 2y - 2z - t - 2u = 0 \end{cases}$
SCD (72/55,-23/55,-13/55,-36/55)
- 28) $\begin{cases} 3x + 4y + 2z - t = 5 \\ 2x - 5y + 4z + 5t = -2 \\ 7x - 6y + 10z + 9t = 1 \\ 4x - 13y + 7t = -12 \end{cases}$
SCI (-40/9 α ,7/9 α ,-6 α ,8/3 α , α)
- 29) $\begin{cases} x + y + z + t = 0 \\ x - y - z + t = 0 \\ -x - y + z + t = 0 \\ x - 3y + 5z + 9t = 0 \end{cases}$
SCI (0,23-14 α /15, α ,17-26 α /15)
- 30) $\begin{cases} x + 2y - 3z + 2t = 0 \\ -2x + y + z + t = 0 \\ x + z + t = 0 \\ 2x + y + 2z + 2t = 0 \end{cases}$
SCI (- α , α ,- α , α)
SCD (0,0,0,0)