DATOS

- VARIABLE ENTERA
- LISTAS $\longrightarrow$ set $\longrightarrow$ matrices
  $\searrow$ conjuntos

$$d_1, d_2, d_3, d_4, \ldots, d_n$$

comas

- intervalos

$$l_i \ldots l_s$$

dos puntos

$$\frac{d x_1(t)}{dt} = x_1(t) + 2 x_2(t)$$

$$\frac{d x_2(t)}{dt} = 3 x_1(t) + 4 x_2(t)$$

$$\bar{x} = \begin{bmatrix} x_1(t) \\ \\ x_2(t) \end{bmatrix} \qquad \frac{d}{dt}\bar{x} = \begin{bmatrix} \dfrac{d x_1(t)}{dt} \\ \\ \dfrac{d x_2(t)}{dt} \end{bmatrix}$$

$$\frac{d}{dt}\bar{x} = AA \cdot \bar{x}$$

$$\begin{bmatrix} \dfrac{d x_1(t)}{dt} \\ \\ \dfrac{d x_2(t)}{dt} \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ \\ 3 & 4 \end{bmatrix} \begin{bmatrix} x_1(t) \\ \\ x_2(t) \end{bmatrix}$$

$$\text{solve} \left(ecuacion, \ var.indep \right)$$

$$\text{solve} \left(\{ sistema \}, \ \{ var.indep \} \right)$$

$$SG := dsolve \left(ecuacion \ diferencial, \ incognita \right)$$

$$SP := dsolve \left(\{ ecuacion \ dif, con \ dic \}, \ incognita \right)$$

$$SGS := dsolve \left(\{ sistem \ ED \}, \{ incog's \} \right)$$

$$SPS := dsolve \left(\{ sistem \ ED, Cond \}, \{ incog's \} \right)$$