$$A = \begin{bmatrix} 1 & -1 \\ 2 & 3 \end{bmatrix} \qquad B = \begin{bmatrix} -1 & 0 \\ -3 & 2 \end{bmatrix}$$

Tipo 2×2 (nº linhas, nº colunas)

ORDEM 2

$$A+B = \begin{bmatrix} 1+(-1) & -1+0 \\ 2+(-3) & 3+2 \end{bmatrix} = \begin{bmatrix} 0 & -1 \\ -1 & 5 \end{bmatrix}$$

$$A \times B = \begin{bmatrix} 1\times(-1)+(-1)\times(-3) & 1\times 0+(-1)\times 2 \\ 2\times(-1)+3\times(-3) & 2\times 0+3\times 2 \end{bmatrix} = \begin{bmatrix} 2 & -2 \\ -11 & 6 \end{bmatrix}$$

$$C = \begin{bmatrix} 0 & 2 \\ 4 & 1 \end{bmatrix} \qquad D = \begin{bmatrix} \frac{1}{2} & 1 \\ -1 & 0 \end{bmatrix}$$

$$C + D = \begin{bmatrix} 0+\frac{1}{2} & 2+1 \\ 4-1 & 1+0 \end{bmatrix} = \begin{bmatrix} 1/2 & 3 \\ 3 & 1 \end{bmatrix}$$

$$C \times D = \begin{bmatrix} 0\times\frac{1}{2} + 2(-1) & 0\times 1 + 2\times 0 \\ 4\times\frac{1}{2} + 1(-1) & 4\times 1 + 1\times 0 \end{bmatrix} = \begin{bmatrix} -2 & 0 \\ 1 & 4 \end{bmatrix}$$