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Algebra / Multiplication of matrices: Basic

$$C = \begin{bmatrix} 3 & -7 \\ -4 & 7 \end{bmatrix} \quad D = \begin{bmatrix} 7 & -4 & 6 \\ 0 & 1 & 2 \end{bmatrix} \quad \begin{array}{c} C \times D \\ 2 \times 2 = 2 \times 3 \\ 2 \times 3 \end{array}$$

$$\begin{bmatrix} 3(7) + (-7)(0) & 3(-4) + (-7)(1) & 3(6) + (-7)(2) \\ -4(7) + 7(0) & -4(-4) + 7(1) & -4(6) + 7(2) \end{bmatrix} = \begin{bmatrix} 21 & -19 & 4 \\ -28 & 23 & -10 \end{bmatrix}$$

$$C = \begin{bmatrix} 7 & 3 & -4 \\ -7 & 5 & 4 \end{bmatrix} \quad D = \begin{bmatrix} 0 & 1 \\ 7 & 7 \\ 2 & -6 \end{bmatrix} \quad \begin{array}{c} C \times D \\ 2 \times 3 = 3 \times 2 \\ 2 \times 2 \end{array}$$

$$\begin{bmatrix} 7(0) + 3(7) + (-4)(2) & 7(1) + 3(7) + (-4)(-6) \\ -7(0) + 5(7) + 4(2) & -7(1) + 5(7) + 4(-6) \end{bmatrix} = \begin{bmatrix} 13 & 52 \\ 43 & 4 \end{bmatrix}$$

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