Chapter 2 Section 3

Andrew Taylor

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Problem 1. Calculate the matrix product

$$\begin{bmatrix} 6 & 7 \\ 8 & 9 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ 3 & 5 \end{bmatrix}$$

Solution.

$$\begin{bmatrix} 6 & 7 \\ 8 & 9 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ 3 & 5 \end{bmatrix} = \begin{bmatrix} 6*1+7*3 & 6*2+7*5 \\ 8*1+9*3 & 8*2+9*5 \end{bmatrix}$$
$$= \begin{bmatrix} 27 & 47 \\ 35 & 61 \end{bmatrix}$$