Answer to Question #51651 – Math – Matrix – Tensor Analysis

Question

Evaluate the following problem:

2*{{3,5},{7,9}} + 3*{{7,6},{5,4}} - 4*{{9,8},{7,6}}

Solution

$$2 \begin{pmatrix} 3 & 5 \\ 7 & 9 \end{pmatrix} + 3 \begin{pmatrix} 7 & 6 \\ 5 & 4 \end{pmatrix} - 4 \begin{pmatrix} 9 & 8 \\ 7 & 6 \end{pmatrix} = \begin{pmatrix} -9 & -4 \\ 1 & 6 \end{pmatrix};$$

Answer: $\begin{pmatrix} -9 & -4 \\ 1 & 6 \end{pmatrix};$