Item Navigation

Product of Diagonal Matrices

Verify that $\begin{pmatrix} a_1 & 0 \\ 0 & a_2 \end{pmatrix} \begin{pmatrix} b_1 & 0 \\ 0 & b_2 \end{pmatrix} = \begin{pmatrix} a_1 b_1 & 0 \\ 0 & a_2 b_2 \end{pmatrix}$. Prove in general that the product of two diagonal matrices is a diagonal matrix, with elements given by the product of the diagonal elements.

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