Answer on Question #56710 - Math - Linear Algebra

Find all possible matrix products of two different matrices among the three matrices below.

$$A = -1, 3, 4$$

$$B=-2, 4, 3$$

$$C = -3, 2$$

Solution

Given
$$A = \begin{pmatrix} -1 & 3 & 4 \\ 0 & -2 & 5 \end{pmatrix}$$
, $B = \begin{pmatrix} -2 & 4 & 3 \\ -1 & -4 & 2 \\ 2 & 4 & 3 \end{pmatrix}$, $C = \begin{pmatrix} -3 & 2 \\ -1 & 6 \end{pmatrix}$,

calculate

$$AB = \begin{pmatrix} 7 & -8 & 15 \\ 12 & 28 & 11 \end{pmatrix}$$

$$CA = \begin{pmatrix} 3 & -13 & -2 \\ 1 & -15 & 5 \end{pmatrix}$$

Other products do not exist.

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