

Name: ANSWER KEY

Score: _____

Find the matrix product, if it exists:

$$\begin{pmatrix} 4 & -2 \\ 0 & 3 \\ -7 & 5 \end{pmatrix} \cdot \begin{pmatrix} 3 \\ 4 \end{pmatrix} = \begin{pmatrix} 4 \cdot 3 + (-2) \cdot 4 \\ 0 \cdot 3 + 3 \cdot 4 \\ -7 \cdot 3 + 5 \cdot 4 \end{pmatrix} = \begin{pmatrix} 12 - 8 \\ 0 + 12 \\ -21 + 20 \end{pmatrix} = \boxed{\begin{pmatrix} 4 \\ 12 \\ -1 \end{pmatrix}}$$

