

Student Name: _____

Score: _____

Multiplication of matrices

Sheet 2

Find the product of the matrices:

$$\begin{bmatrix} 1 & 3 \\ -5 & 9 \end{bmatrix} \begin{bmatrix} 12 & 2 \\ 6 & 3 \end{bmatrix} =$$

$$\begin{bmatrix} 3 & 2 & -4 \\ 6 & 2 & 11 \\ 5 & -7 & 1 \end{bmatrix} \begin{bmatrix} 3 & 5 & 3 \\ -7 & 8 & 1 \\ 2 & -5 & 9 \end{bmatrix} =$$

$$\begin{bmatrix} 9 & 4 & 7 \\ -3 & 12 & 5 \\ 6 & 2 & 1 \end{bmatrix} \begin{bmatrix} -2 & 4 & 5 \\ 1 & 3 & 1 \\ -3 & 7 & 6 \end{bmatrix} =$$

$$\begin{bmatrix} 7 & -1 & 2 \\ 3 & 4 & 1 \\ 2 & 5 & 3 \end{bmatrix} \begin{bmatrix} 6 & 4 & 2 \\ -5 & 3 & 7 \\ 1 & 6 & 1 \end{bmatrix} =$$

$$\begin{bmatrix} 5 & 12 \\ -4 & 3 \end{bmatrix} \begin{bmatrix} 4 & 2 \\ 6 & -1 \end{bmatrix} =$$

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Answer key

Multiplication of matrices

Sheet 2

$$\begin{bmatrix} 1 & 3 \\ -5 & 9 \end{bmatrix} \begin{bmatrix} 12 & 2 \\ 6 & 3 \end{bmatrix} = \begin{bmatrix} 30 & 11 \\ -6 & 17 \end{bmatrix}$$

$$\begin{bmatrix} 3 & 2 & -4 \\ 6 & 2 & 11 \\ 5 & -7 & 1 \end{bmatrix} \begin{bmatrix} 3 & 5 & 3 \\ -7 & 8 & 1 \\ 2 & -5 & 9 \end{bmatrix}$$

$$\begin{bmatrix} 9 & 4 & 7 \\ -3 & 12 & 5 \\ 6 & 2 & 1 \end{bmatrix} \begin{bmatrix} -2 & 4 & 5 \\ 1 & 3 & 1 \\ -3 & 7 & 6 \end{bmatrix} =$$

$$\begin{bmatrix} 7 & -1 & 2 \\ 3 & 4 & 1 \\ 2 & 5 & 3 \end{bmatrix} \begin{bmatrix} 6 & 4 & 2 \\ -5 & 3 & 7 \\ 1 & 6 & 1 \end{bmatrix} =$$

$$\begin{bmatrix} 5 & 12 \\ -4 & 3 \end{bmatrix} \begin{bmatrix} 4 & 2 \\ 6 & -1 \end{bmatrix} = \begin{bmatrix} 92 & -2 \\ 2 & -11 \end{bmatrix}$$

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