

Student Name: _____

Score: _____

Multiplication of matrices

Sheet 4

Find the product of the following matrices:

$$\text{Let } A = \begin{bmatrix} -4 & 2 & 1 \\ 6 & 3 & 5 \\ 11 & 2 & 4 \end{bmatrix} \text{ and } B = \begin{bmatrix} 12 & -1 & 2 \\ 6 & -3 & 8 \\ 7 & 1 & 5 \end{bmatrix}. \text{ Find } AB.$$

$$\text{Let } A = \begin{bmatrix} -5 & 2 & 3 \\ 8 & 1 & 0 \\ 1 & 3 & 4 \end{bmatrix} \text{ and } B =$$

$$\text{Let } A = \begin{bmatrix} -4 & 6 \\ 12 & 3 \end{bmatrix} \text{ and } B = \begin{bmatrix} 7 \\ 2 \end{bmatrix}$$

$$\text{Let } A = \begin{bmatrix} 1 & -3 & 1 \\ 5 & 2 & 3 \\ 7 & 3 & 5 \end{bmatrix} \text{ and } B = \begin{bmatrix} -8 & 2 & 2 \\ -9 & 3 & 1 \\ 5 & 8 & 4 \end{bmatrix}. \text{ Find } AB.$$

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Answer key

Multiplication of matrices

Sheet 4

$$\begin{bmatrix} -29 & -1 & 13 \\ 125 & -10 & 61 \\ 172 & -13 & 58 \end{bmatrix}$$

$$\begin{bmatrix} -4 & -16 & 26 \\ 28 & 73 & -11 \\ 19 & 43 & 21 \end{bmatrix}$$

$$\begin{bmatrix} -16 & 28 \\ 90 & 84 \end{bmatrix}$$

$$\begin{bmatrix} 24 & 1 & 3 \\ -43 & 40 & 24 \\ -58 & 63 & 37 \end{bmatrix}$$

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