

Student Name: _____

Score: _____

Multiplication of matrices

Sheet 8

Find the product the following matrices:

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

$$\text{Let } A = \begin{bmatrix} -2 \\ 4 \\ 3 \\ -1 \end{bmatrix} \text{ and } B = [12]$$

$$\text{Let } A = \begin{bmatrix} 20 & 5 \\ 1 & 8 \\ 3 & 2 \\ -2 & 3 \\ 11 & 2 \end{bmatrix} \text{ and } B = \begin{bmatrix} 1 \\ 7 \end{bmatrix}$$

$$\text{Let } A = \begin{bmatrix} 2 & -4 & 6 & -9 & 5 \\ 6 & -7 & 4 & 3 & 3 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 2 \\ 2 & -9 \end{bmatrix}$$

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Answer key

Multiplication of matrices

Sheet 8

$$\begin{bmatrix} -6 & 4 & 0 & -14 & -12 \\ -11 & 19 & 21 & -28 & -8 \\ 6 & 11 & 27 & 11 & 30 \\ 23 & -32 & -30 & 57 & 26 \\ 0 & 15 & 27 & -3 & 18 \end{bmatrix}$$

$$\begin{bmatrix} -24 & -10 & -12 & -4 \\ 48 & 20 & 24 & 8 \\ 36 & 15 & 18 & 6 \\ -12 & -5 & -6 & -2 \end{bmatrix}$$

$$\begin{bmatrix} 55 & 15 & -40 & 95 & -110 \\ 57 & -38 & 29 & 28 & 10 \\ 17 & -4 & -1 & 18 & -14 \\ 19 & -19 & 18 & 1 & 18 \\ 25 & 12 & -25 & 50 & -62 \end{bmatrix}$$

$$\begin{bmatrix} 65 & -51 \\ 115 & -2 \end{bmatrix}$$

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