

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Multiplication of matrices

Sheet 7

Find the product the following matrices:

$$\text{Let } A = \begin{bmatrix} 3 & 2 & -1 & 4 & 6 \\ 7 & -5 & 1 & 2 & 8 \end{bmatrix} \text{ and } B = \begin{bmatrix} 6 & 3 \\ 8 & -2 \\ -9 & 7 \\ 2 & 1 \\ 3 & 4 \end{bmatrix}. \text{ Find } AB.$$

Let  $A = [7 \quad -8 \quad 12 \quad 13]$  and

$$\text{Let } A = \begin{bmatrix} 12 & 1 \\ -10 & 5 \\ 3 & -1 \\ 6 & 2 \\ -3 & 8 \end{bmatrix} \text{ and } B = \begin{bmatrix} 3 \\ 9 \\ -7 \\ -14 \\ 3 \end{bmatrix}$$

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$$\text{Let } A = [13 \quad 2 \quad -3 \quad 6 \quad 12] \text{ and } B = \begin{bmatrix} 3 \\ 9 \\ -7 \\ -14 \\ 3 \end{bmatrix}. \text{ Find } AB.$$

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Answer key

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$$\begin{bmatrix} 69 & 26 \\ 21 & 72 \end{bmatrix}$$

[0]

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$$\begin{bmatrix} 21 & 35 & 55 & 62 & 73 \\ -35 & -35 & -5 & -40 & -55 \\ 9 & 10 & 5 & 13 & 17 \\ 6 & 16 & 38 & 34 & 38 \\ -30 & -17 & 44 & 1 & -10 \end{bmatrix}$$

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