

Student Name: _____

Score: _____

Order of matrix

Sheet 1

Find the order of matrix multiplication:

$$\begin{bmatrix} 2 & 3 & 1 \\ 5 & 7 & 8 \end{bmatrix} \begin{bmatrix} 7 \\ \sqrt{2} \\ 1 \end{bmatrix}$$

Order =

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

Order =

$$\begin{bmatrix} \sqrt{7} & 3 & 8 \end{bmatrix} \begin{bmatrix} -2 & -4 \\ 7 & \sqrt{3} \\ 9 & 0 \end{bmatrix}$$

Order =

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

Order =

$$\begin{bmatrix} 2 \\ -3 \\ 8 \\ 7 \end{bmatrix} \begin{bmatrix} 12 & -3 \end{bmatrix}$$

Order =

$$\begin{bmatrix} 1 & 2 \\ -3 & 7 \\ \sqrt{5} & 3 \end{bmatrix} \begin{bmatrix} 8 & \sqrt{2} & -1 & 6 \\ 5 & 3 & 7 & 0 \end{bmatrix}$$

Order =

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Answer Key

Order of matrix

Sheet 1

2×1

3×2

1×2

2×3

4×2

3×4