

Student Name: _____

Score: _____

Order of matrix

Sheet 2

Find the order of matrix multiplication:

$$[2 \ 6 \ 13] \begin{bmatrix} 1 & 8 & -2 \\ 14 & 5 & 6 \\ -5 & \sqrt{3} & 2 \end{bmatrix}$$

Order =

$$\begin{bmatrix} 2 & -1 \\ 1 & -3 \end{bmatrix} \begin{bmatrix} 12 & 3 \\ -7 & 6 \end{bmatrix}$$

Order =

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

Order =

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

Order =

$$\begin{bmatrix} 5 & 13 \\ -8 & 3 \end{bmatrix} \begin{bmatrix} 9 & -2 & 17 & 4 \\ 1 & 3 & 23 & 1 \end{bmatrix}$$

Order =

$$\begin{bmatrix} 4 & -3 & 7 \\ 8 & 0 & 1 \\ -5 & 45 & 21 \\ -13 & 17\sqrt{2} & 12 \\ 7 & 3 & 9 \end{bmatrix} \begin{bmatrix} 1 & 3 \\ -2 & 7 \\ 27 & 9 \end{bmatrix}$$

Order =

Student Name: _____

Score:

Answer Key

Order of matrix

Sheet 2

1 x 3

2 x 2

3 x 5

3 x 3

2 x 4

5 x 2