

# Matrices

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

Date: \_\_\_\_\_

## Order of Matrices.

1) 
$$\begin{bmatrix} \sqrt{2} & 6 & 0 \\ -4 & 7 & 9 \\ 5 & 2 & \sqrt{5} \\ \sqrt{3} & 1 & 3 \end{bmatrix} \begin{bmatrix} 5 & 7 & 3 & \sqrt{2} \\ -3 & \sqrt{3} & 5 & 5 \\ -2 & 7 & 1 & 2 \end{bmatrix}$$

Order = 4x4

2) 
$$\begin{bmatrix} 2 \\ 3 \\ 4 \\ -6 \\ -3 \end{bmatrix} [3 \quad \sqrt{2} \quad 7\sqrt{6} \quad 5 \quad 1]$$

Order = \_\_\_\_\_

3) 
$$[\sqrt{2} \quad 3 \quad 2\sqrt{2}] \begin{bmatrix} -2 & \sqrt{5} \\ \sqrt{3} & \frac{4}{5} \\ 4 & -1 \end{bmatrix}$$

Order = \_\_\_\_\_

4) 
$$[-9 \quad \sqrt{4} \quad \frac{2}{3}] \begin{bmatrix} \frac{1}{2} & 5 & 2 \\ 6 & 0 & -8 \\ \sqrt{7} & 4 & \frac{3}{4} \end{bmatrix}$$

Order = \_\_\_\_\_

5) 
$$\begin{bmatrix} 2\frac{1}{2} & \sqrt{5} \\ \sqrt{3} & 7 \\ 9\sqrt{2} & \frac{8}{5} \end{bmatrix} \begin{bmatrix} 2\sqrt{2} & -5 & \frac{4}{5} & \sqrt{4} \\ \frac{\sqrt{5}}{7} & 0 & 6 & -3 \end{bmatrix}$$

Order = \_\_\_\_\_

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

Order = \_\_\_\_\_

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

Order = \_\_\_\_\_

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

Order = \_\_\_\_\_

# Matrices

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

Date: \_\_\_\_\_

## Order of Matrices.

1) 
$$\begin{bmatrix} \sqrt{2} & 6 & 0 \\ -4 & 7 & 9 \\ 5 & 2 & \sqrt{5} \\ \sqrt{3} & 1 & 3 \end{bmatrix} \begin{bmatrix} 5 & 7 & 3 & \sqrt{2} \\ -3 & \sqrt{3} & 5 & 5 \\ -2 & 7 & 1 & 2 \end{bmatrix}$$

Order = 4x4

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

Order = 5x5

3) 
$$\begin{bmatrix} \sqrt{2} & 3 & 2\sqrt{2} \end{bmatrix} \begin{bmatrix} -2 & \sqrt{5} \\ \sqrt{3} & \frac{4}{5} \\ 4 & -1 \end{bmatrix}$$

Order = 1x2

4) 
$$\begin{bmatrix} -9 & \sqrt{4} & \frac{2}{3} \end{bmatrix} \begin{bmatrix} \frac{1}{2} & 5 & 2 \\ 6 & 0 & -8 \\ \sqrt{7} & 4 & \frac{3}{4} \end{bmatrix}$$

Order = 1x3

5) 
$$\begin{bmatrix} 2\frac{1}{2} & \sqrt{5} \\ \sqrt{3} & 7 \\ 9\sqrt{2} & \frac{8}{5} \end{bmatrix} \begin{bmatrix} 2\sqrt{2} & -5 & \frac{4}{5} & \sqrt{4} \\ \frac{\sqrt{5}}{7} & 0 & 6 & -3 \end{bmatrix}$$

Order = 3x4

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

Order = 2x3

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

Order = 2x3

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

Order = 2x4