

# Matrices

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

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

## Order of Matrices.

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

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

2) 
$$\begin{bmatrix} \frac{\sqrt{6}}{4} & 7\frac{1}{4} \\ 8\sqrt{10} & \frac{\sqrt{3}}{7} \\ -9 & \sqrt{5} \end{bmatrix} \begin{bmatrix} 3\sqrt{5} & -2 \\ 4\frac{1}{7} & \frac{\sqrt{11}}{5} \end{bmatrix}$$

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

3) 
$$\begin{bmatrix} \sqrt{5} & \frac{\sqrt{2}}{3} & \frac{1}{5} \\ 3\frac{1}{5} & 8\sqrt{2} & -3 \\ \sqrt{5} & 6 & 3\frac{1}{5} \end{bmatrix} \begin{bmatrix} -2 & 5 \\ \sqrt{7} & -6 \\ 0 & \sqrt{10} \end{bmatrix}$$

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

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

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

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

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

6) 
$$\begin{bmatrix} \frac{\sqrt{14}}{3} & 4 & 5 & \frac{2}{3} \\ 1 & 4 & 2 & \frac{1}{2} \end{bmatrix} \begin{bmatrix} \sqrt{5} & 6 & 2 \\ \sqrt{2} & 5 & 1 \\ \sqrt{1} & 2 & \frac{1}{2} \\ \sqrt{3} & 8 & 3 \end{bmatrix}$$

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

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

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

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

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

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

## Order of Matrices.

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

Order = 3x3

2) 
$$\begin{bmatrix} \frac{\sqrt{6}}{4} & 7\frac{1}{4} \\ 8\sqrt{10} & \frac{\sqrt{3}}{7} \\ -9 & \sqrt{5} \end{bmatrix} \begin{bmatrix} 3\sqrt{5} & -2 \\ 4\frac{1}{7} & \frac{\sqrt{11}}{5} \end{bmatrix}$$

Order = 3x2

3) 
$$\begin{bmatrix} \sqrt{5} & \frac{\sqrt{2}}{3} & \frac{1}{5} \\ 3\frac{1}{5} & 8\sqrt{2} & -3 \\ \sqrt{5} & 6 & 3\frac{1}{5} \end{bmatrix} \begin{bmatrix} -2 & 5 \\ \sqrt{7} & -6 \\ 0 & \sqrt{10} \end{bmatrix}$$

Order = 3x2

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

Order = 4x3

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

Order = 2x4

6) 
$$\begin{bmatrix} \frac{\sqrt{14}}{3} & 4 & 5 & \frac{2}{3} \\ 1 & 4 & 2 & \frac{1}{2} \end{bmatrix} \begin{bmatrix} \sqrt{5} & 6 & 2 \\ \sqrt{2} & 5 & 1 \\ \sqrt{1} & 2 & \frac{1}{2} \\ \sqrt{3} & 8 & 3 \end{bmatrix}$$

Order = 2x3

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

Order = 2x3

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

Order = 2x1