

Matrix Calculator: Linear Algebra - Matrix Addition

Instructions:

1. Add the given matrices using a matrix calculator.
2. Write your answers in the space provided.
3. Verify your results to ensure accuracy.

Matrix Addition Problems

1. Add the following matrices:

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$

$$B = \begin{bmatrix} 5 & 6 \\ 7 & 8 \end{bmatrix}$$

2. Add the following matrices:

$$A = \begin{bmatrix} 2 & 4 & 6 \\ 1 & 3 & 5 \end{bmatrix}$$

$$B = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 2 \end{bmatrix}$$

3. Add the following matrices:

$$A = \begin{bmatrix} 0 & -2 \\ 4 & 5 \end{bmatrix}$$

$$B = \begin{bmatrix} 2 & 3 \\ 1 & -1 \end{bmatrix}$$

4. Add the following matrices:

$$A = \begin{bmatrix} 3 & 3 & 3 \\ 2 & 2 & 2 \\ 1 & 1 & 1 \end{bmatrix}$$

$$B = \begin{bmatrix} 1 & 0 & -1 \\ 0 & -1 & 2 \\ 1 & -2 & 0 \end{bmatrix}$$

5. Add the following matrices:

$$A = \begin{bmatrix} 10 & 20 \\ 30 & 40 \end{bmatrix}$$

$$B = \begin{bmatrix} -10 & -20 \\ -30 & -40 \end{bmatrix}$$

Answer Key

Answers:

1. $[[6, 8], [10, 12]]$
2. $[[3, 5, 7], [3, 5, 7]]$
3. $[[2, 1], [5, 4]]$
4. $[[4, 3, 2], [2, 1, 4], [2, -1, 1]]$
5. $[[0, 0], [0, 0]]$