

Matrices on the Graphing Calculator

Enter Matrices on the Calculator:

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

$$B = \begin{bmatrix} -1 & 5 \\ 4 & 0 \end{bmatrix}$$

$$C = \begin{bmatrix} -2 & 1 \\ 4 & 3 \\ 0 & -1 \end{bmatrix}$$

$$D = \begin{bmatrix} 2 & -3 & 4 \\ 1 & 0 & 2 \\ 3 & -1 & 1 \end{bmatrix}$$

Perform Basic Operations:

1. $A + B$

2. $3A - B$

3. AB

3. CB

5. BC

Determinants:

6. $|A|$

7. $|B|$

8. $|D|$

Inverses:

9. A^{-1}

10. B^{-1}

11. D^{-1}

Solving Systems:

12.
$$\begin{aligned} 2x - y &= -10 \\ -3x + 4y &= 5 \end{aligned}$$

13.
$$\begin{aligned} x + 2y + 2z &= -2 \\ 2x - y + 3z &= -6 \\ x - 3y + 2z &= -7 \end{aligned}$$

Steps: