MATRICES WITH A CALCULATOR

USING YOUR CALCULATOR

Using the Calculator to Compute with Matrices

    A. Entering a Matrix

        1. Turn on calculator

        2. Press 2ⁿᵈ x⁻¹ . Scroll over to EDIT.

        3. Scroll down to any matrix letter you want.

        4. Press Enter

        5. Enter the dimensions of the matrix.

        6. Enter the values going across.

    B. Recall a matrix onto the home screen.

        1. Press 2ⁿᵈ x⁻¹ .

        2. Have NAMES highlighted

        3. Scroll down to the letter that you have entered your matrix.

        4. Press Enter

        5. Viola! The matrix has appeared onto the home screen, as [letter]

Examples; Compute the following using your calculator and two stores matrices.

Given: $\qquad A = \begin{bmatrix} 5 & -7 \\ 1 & 4 \end{bmatrix} \qquad B = \begin{bmatrix} -12 & 3 \\ 2 & 0 \end{bmatrix}$

1. A+B   2. A-B   3. AB   4. BA

$\begin{bmatrix} -7 & -4 \\ 3 & 4 \end{bmatrix} \qquad \begin{bmatrix} 17 & -10 \\ -1 & 4 \end{bmatrix} \qquad \begin{bmatrix} -74 & 15 \\ -4 & 3 \end{bmatrix} \qquad \begin{bmatrix} -57 & 96 \\ 10 & -14 \end{bmatrix}$