

When you see the directive to go to **MATRIX** on your calculator, you will press $\boxed{2^{\text{nd}}}$ $\boxed{x^{-1}}$.

If you have the standard **TI-83** version (instead of a **TI-83 Plus** or any version of a **TI-84**), when you see directions to go to **MATRIX**, you need to hit the one button, $\boxed{\text{MATRIX}}$

2.4 Matrices

To add (or subtract) matrices:

Enter the two matrices as [A] and [B] as before.

MATRIX and choose [A].

$\boxed{+}$ (or $\boxed{-}$) and then MATRIX to choose [B].

Your home screen should now show [A] + (or -) [B].

$\boxed{\text{ENTER}}$.

To find the transpose of a matrix:

Enter the matrix [A] as before.

MATRIX and choose [A].

MATRIX and right arrow to MATH.

Choose 2: $^{\text{T}}$

Your home screen should now show [A] $^{\text{T}}$.

$\boxed{\text{ENTER}}$

To multiply a matrix by a scalar, for example, multiply by 4:

Enter the matrix [A] as before.

Press 4 (or whatever number you need).

MATRIX and choose [A].

Your home screen should now show 4[A].

$\boxed{\text{ENTER}}$

2.5 Multiplication of Matrices

To multiply two matrices:

Enter the two matrices as [A] and [B] as before.

MATRIX and choose [A].

$\boxed{\times}$ and then MATRIX to choose [B].

Your home screen should now show [A] * [B].

$\boxed{\text{ENTER}}$

NOTE: The multiplication symbol between the matrices is optional.

2.6 The Inverse of a Square Matrix

To find the inverse of a matrix:

Enter the matrix as [A].

MATRIX and choose [A].

$\boxed{x^{-1}}$

Your home screen should now show [A] $^{-1}$

$\boxed{\text{ENTER}}$