

# Matrices App

TI-73 Explorer™

This App allows a student to add matrix entry, editing, and calculation functions to their TI-73 Explorer calculator.

```

APPLICATIONS
1:Link...
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```

**1**  
With the handheld turned on, press [APPS]. Select MATRICES. Press any key as requested to arrive at the Matrix Menu Screen.

```

Matrix Menu  Quit=Exit App
NAME MTH EDT HLP
1:[A]
2:[B]
3:[C]
4:[D]
5:[E]
6:[F]
    
```

**2**  
The Matrix Menu Screen has four menu options: NAME to select a matrix when performing operations, MTH to select operations, EDT to define matrices, and HLP for help.

```

Matrix Menu  Quit=Exit App
NAME MTH [EDT] HLP
1:[A]
2:[B]
3:[C]
4:[D]
5:[E]
6:[F]
    
```

**3**  
Arrow right to the Edit menu to define a new matrix or edit existing matrices. Highlight the desired matrix and press [ENTER] to arrive at the Matrix Edit screen.

```

Matrix Edit  Apps=Menu
MATRIX[A] 2 x3
[0 0 0 ]
[0 0 0 ]
    
```

**4**  
Use the number keys to define the dimensions and values of the matrix. Press [ENTER] to move the cursor to the first position inside the matrix.

```

Matrix Edit  Apps=Menu
MATRIX[A] 2 x3
[ 2 3 5 ]
[ 6 1.5 5 ]
z, 3=5
    
```

**5**  
Use the number keys to enter the values in the matrix. Press [ENTER] after each entry to move to the next cell until the matrix is filled.

```

Matrix Home  Apps=Menu
    
```

**6**  
Press [APPS][CLEAR] to arrive at the Matrix Home Screen where matrix operations are performed.

```

Matrix Menu  Quit=Exit App
NAME [MTH] EDT HLP
8:Matr→list(
9:List→matr(
0:cumSum(
A:ref(
B:rref(
C→rowSwap(
    
```

**8**  
To select an operation, press [APPS], then right arrow to the Math menu. Arrow down to highlight the desired operation and press [ENTER].

```

Matrix Home  Apps=Menu
rref(
    
```

**9**  
The selected operation will be pasted onto the Matrix Home screen.

```

Matrix Menu  Quit=Exit App
NAME MTH EDT HLP
1:[A] 2x3
2:[B]
3:[C]
4:[D]
5:[E]
6:[F]
    
```

**10**  
To select a matrix for the operation, press [APPS], then arrow down to highlight the desired matrix. Press [ENTER].

```

Matrix Home  Apps=Menu
rref([A])
    
```

**11**  
The selected matrix will be pasted onto the home screen. Close the parentheses and press [ENTER].

```

Matrix Home  Apps=Menu
rref([A])
[[1 0 .5
[0 1 1.3333333...
    
```

**12**  
The result will appear on the Matrix Home Screen.

```

Matrix Menu  Quit=Exit App
NAME MTH EDT [HLP]
1:Help
2:Quit
    
```

**13**  
To exit the application at any time, right arrow to the Help menu and select Quit.