Bradford

Matrices 89

Matrices are an important type of math object. Like real numbers, you can perform mathematical operations with matrices.

Suppose you wish to enter the 3 by 3 matrix,

$$\begin{bmatrix} 1 & 0 & 2 \\ 5 & 1 & 2 \\ -3 & 4 & -6 \end{bmatrix}$$

into your calculator. You can type in:

[1,0,2;5,1,2;-3,4,-6]

or you can enter the matrix in the data editor by going into **APPS** 6.

Go into the data editor. The calculator prompts you for a name. Give this matrix the name mat . We want mat to be a 3 by 3 matrix so type in the threes. Your screen should look like this.

Туре:	Matrix >	
Folder:	main)	
Variable:	mat	
Row dime	nsion: 3	_
Co1 dimen	sion: 3	
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Type in the individual entries for the matrix.

2nd ESC returns you to the home screen.

Type the name **mat**, to see this matrix. Type in the following to get the product of the inverse of mat and mat. Namely, $mat^{-1} * mat$.

 $(mat^{\wedge} - 1) * mat$

(Look at the Back!)

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Is the answer close to the matrix,

ſ	1	0	0	
	0	1	0	?
	0	0	1	

Done in $E^{\!\!A}\!T_{\!E}\!X.$