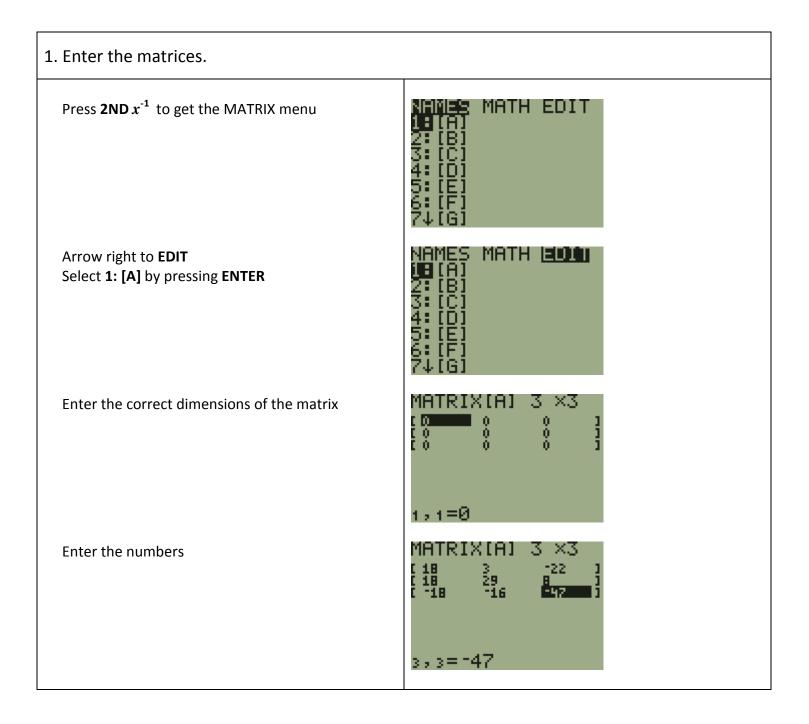
## **Solving Linear Systems Using Matrices**

	(18x + 3y - 22z = -507)		[x]	[ 18	3	-22]	$\begin{bmatrix} -507\\ 171\\ 492 \end{bmatrix}$
	18x + 29y + 8z = 171	$\Rightarrow$	y  =	18	29	8	171
	(-18x - 16y - 47z = 492)		$\lfloor_Z \rfloor$	L-18	-16	<u>-47</u>	L 492 ]



Press <b>2ND</b> x <sup>-1</sup> to get the MATRIX menu Arrow over to <b>EDIT</b> Select <b>2: [B]</b> by pressing <b>ENTER</b>	NAMES MATH <b>EDI</b> 1:[A] 3×3 28 [B] 3:[C] 4:[D] 5:[E] 6:[F] 7↓[G]			
Enter the correct dimensions of the matrix Enter the numbers	MATRIX[B] 3 ×1 [ -507 ] [ 171 ] [ 492 ] 3 , 1=492			
Press <b>2ND MODE</b> to Quit				
2. Enter the equation to find the solution.				
Press <b>2ND</b> $x^{-1}$ to get the MATRIX menu Select <b>1: [A]</b> by pressing <b>ENTER</b> Press $x^{-1}$ Press <b>2ND</b> $x^{-1}$ to get the MATRIX menu Select <b>2: [B]</b> by pressing <b>ENTER</b>	(A) <sup>-1</sup> (B)∎			
Press <b>ENTER</b> again.	(A) <sup>-1</sup> (B) -41 33 -6			