Row Reduction on the TI-83

1) Press **MATRIX**.
2) Press the right arrow button twice, so that **EDIT** is highlighted. Choose which matrix you want to edit ([A] is a good choice), then press **ENTER**.
3) Enter the size of the matrix you want, pressing **ENTER** between each dimension.
4) Enter the entries of the matrix, pressing **ENTER** between each entry.
5) Press **QUIT** (**2nd** then **MODE**).
6) Press **MATRIX**, then move over to **MATH** and scroll down to **rref(**. Press **ENTER**.
7) Press **MATRIX**, then highlight the matrix you want to work with by pressing the arrows. If you want to work with [A], just press **ENTER**. You should see now see rref([A] (or whichever matrix you chose) on the main screen. Close the right parenthesis so you see rref([A]). Press **ENTER**.
8) If you would like to see fractions instead of decimals, press **2nd** then **ENTER**. You should see rref([A]) again. This time, press **MATH**. You should see a menu with **Frac** highlighted. Press **ENTER**. Now you should see rref([A])▶Frac. Press **ENTER**. Now you should see your reduced matrix with fractional entries. You can see the whole matrix by using the arrow keys.