Reduced Row Echelon Form

Definition: A matrix is said to be in reduced row echelon form if

- 1. It is in row echelon form.
- 2. The first nonzero entry in each row is 1.
- 3. The first nonzero entry in each row is the only nonzero entry in its column.

Theorem 2: Every matrix is row equivalent to a *unique* matrix in reduced row echelon form (RREF).

Example 5: Write the given augmented matrix in reduced row echelon form.