1. If the given statement is true, write “True”. If the given statement is false, write “False” and explain why it is false using complete sentences with proper grammar and punctuation.

(a) Every elementary row operation is reversible.

(b) A 6x8 matrix has eight rows.

c) Elementary row operations on an augmented matrix never change the solution set of the associated linear system.

d) Two matrices are row equivalent if they have the same number of rows.

e) An inconsistent system has more than one solution.
(f) Two linear systems are equivalent if they have the same solution set.

2. If the given statement is true, write “True”. If the given statement is false, write “False” and explain why it is false using complete sentences with proper grammar and punctuation.

   (a) In some cases, a matrix may be row reduced to more than one matrix in reduced echelon form, using different sequences of row operations.

   (b) A basic variable in a linear system is a variable that corresponds to a pivot column in the coefficient matrix.

   (c) If one row in an echelon form of an augmented matrix is \([0 \ 0 \ 0 \ 7 \ 0]\), then the associated linear system is inconsistent.