Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Group\_\_\_\_\_\_\_\_\_\_

(For this quiz, a true/false question does not need any explanation)

1. \_\_\_\_\_ (true of false) The vector is equal to the vector
2. \_\_\_\_\_ (true of false) The vector is equal to the vector
3. To describe a line in space, we need a system with at least \_\_\_\_\_ linear equations.

1. \_\_\_\_\_ (true of false) If a linear system that has 3 variables has a solution set that can be represented by a line passing through the origin, it is possible to write the solution set using only one vector and one parameter.

1. \_\_\_\_\_ (true of false) It is always true that has the length of one
2. \_\_\_\_\_ (true of false) The vector is perpendicular to the vector
3. Which one of the following matrix is in reduced row echelon form (circle every item that is in a reduced row echelon form)
   1. b.

c. d.

1. Is row equivalent to \_\_\_\_\_\_