

Math 54 Quiz 1
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Name: _____

1. True or False? You **must** justify your answer. (*2 points each*).
 - (a) If two matrices have the same reduced row echelon form, then their associated linear systems have the same solution set.
 - (b) A linear system is inconsistent if 0 is the only solution.
 - (c) The row echelon form of a matrix is unique.

2. Find all solutions, if any, of the following linear system. (*4 points*).

$$\begin{aligned}x_1 - 7x_2 + 6x_3 &= 5 \\x_3 - 2x_4 &= -3 \\-x_1 + 7x_2 - 4x_3 + 2x_4 &= 7\end{aligned}$$