Name: _____   R. Hammack   Score: _____

Directions: Please answer all questions in the space provided.
Use of calculators or any form of communication device is strictly forbidden on this quiz.

1. Suppose A, B and C are invertible 4-by-4 matrices, and $AB^{-1}C = I_4$. Express B in terms of A and C.

2. Find the inverse of the matrix $A = \begin{bmatrix} 1 & 2 & -1 \\ 3 & 7 & -10 \\ 7 & 16 & -21 \end{bmatrix}$, if it exists, or verify that it does not exist.