☞ Quiz: Sections 2.1 & 2.2 | Linear Algebra MATH 310 | September 15, 2016

Name: _____ | R. Hammack | Score: _____

Directions: Please answer in the space provided. No calculators. Please put all phones, etc., away.

1. For this problem, $A = \begin{bmatrix} 2 & 3 \\ -2 & -3 \end{bmatrix}$, $B = \begin{bmatrix} 6 & 9 & -3 \\ -4 & -6 & 2 \end{bmatrix}$, $C = \begin{bmatrix} -2 \\ 4 \end{bmatrix}$, and $D = \begin{bmatrix} -2 & 0 \end{bmatrix}$.
   Preform the indicated operations or state that they are not possible.

   (a) $AB =$

   (b) $DAC =$

   (c) $C - 5D^T =$

   (d) $A^3 =$

   (e) Solve the equation $A + (3X)^T = I_2$ for X.