

MATH 335 Quiz 3**Name:**

Show all work including any matrix obtained by matlab. 10 points each.

1. If A, B and C are invertible $n \times n$ matrices find the solution for X to $C^{-1}(A+X)B^{-1} = I_n$

2. Let $A = \begin{bmatrix} 1 & 2 \\ 5 & 12 \end{bmatrix}$. Find A^{-1} and use it to solve $A\mathbf{x} = \begin{bmatrix} -1 \\ 3 \end{bmatrix}$