Quiz 2 Class 19

Linear Algebra I   Section:

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NAME & ID(Please print legibly)   Week 3

PLEASE SHOW ALL YOUR WORK.

1. Apply elimination to produce the factors L and U for

$$\begin{bmatrix} 3 & 1 & 1 \\ 1 & 3 & 1 \\ 1 & 1 & 3 \end{bmatrix}$$

2. Given

$$\begin{bmatrix} 1 & 4 & 3 \\ -1 & -2 & 0 \\ 2 & 2 & 3 \end{bmatrix}$$

Use the Gauss-Jordan Method to Find A^{-1}.