

**Quiz No: 3****Math 260**

1. Let  $A = \begin{pmatrix} 1 & 1 \\ 3 & 1 \end{pmatrix}$ ,  $B = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$  and  $I = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ . Find B so that  $AB = I$

2. Let  $A = \begin{pmatrix} 1 & 5 & 1 \\ 2 & 5 & 0 \\ 2 & 7 & 1 \end{pmatrix}$ . Construct the augmented matrix  $(A|I)$ . Then perform row

operations in the augmented matrix and find inverse of the matrix  $A$ .

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