

Elementary Linear Algebra - MATH 2250 - Quiz 3

Name:

1. Let the subscripts denote the number of rows and columns of each matrix, respectively. Mark all the matrix products that are defined.

☐ $A_{2 \times 3} B_{3 \times 2}$

☐ $A_{3 \times 3} B_{2 \times 2}$

☐ $A_{3 \times 3} B_{3 \times 3}$

☐ $A_{2 \times 1} B_{2 \times 1}$

☐ $A_{1 \times 2} B_{2 \times 1}$

2. Find the inverse of A using Gauss-Jordan method. Show steps.

$$A = \begin{bmatrix} 1 & 2 \\ 2 & 5 \end{bmatrix}.$$