

Math 4133 - Linear Algebra

Quiz #2 - 2013.01.18

Solutions

1. Under what conditions can you add matrices A and B ? Similarly, what conditions are required to perform the multiplication $A \cdot B$?

To add A and B , the dimensions must agree exactly. To multiply, the number of columns of A must be equal to the number of rows of B .

2. Is it possible to have exactly two solutions to a linear system of equations?

No, for any linear system of equations, there can be (a) no solutions, (1) exactly one solution, (2) infinitely many solutions.