

Math 2210Q-004 Applied Linear Algebra
E-Mail Assignments
on the readings in the textbook

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Submit by E-Mail by 7:00 am on the date due (before class)
to dgross@math.uconn.edu.

Due for Thursday, February 5

Section 1.9 The Matrix of a Linear Transformation

Section 2.1 Matrix Operations

To read: All of the introduction and Section 2.1

To Do: Homework from section 1.8

Be sure sure to understand: The section “Matrix Multiplication”; The transpose of a matrix.

Email Subject Line: 2210EA 02/05 YourLastName

Questions:

1. What is the relationship between the number of pivot position in a matrix and whether or not the transformation represented by that matrix is **onto**?
 2. Give one way in which matrix multiplication differs from multiplication of real numbers.
 3. If A , B and C are matrices, is it necessarily true that when $AC = BC$, that $A = B$? Explain
 4. In your own words, why is matrix multiplication defined the way it is?
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