

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, January 29

Section 1.7 Linear Independence

To read: All

To Do: Homework from sections 1.4 and 1.5

Be sure sure to understand: The section "Linear Independence of Matrix Columns".

Email Subject Line: 2210EA 01/29 YourLastName

Questions:

1. If $A\vec{x} = \vec{0}$ has infinitely many solutions, can the columns of A be linearly independent? Explain.
 2. If $A\vec{x} = \vec{b}$ has infinitely many solutions, can the columns of A be linearly independent? Explain.
 3. Explain in your own words why a set of three vectors in \mathbb{R}^2 cannot be linearly independent.
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