
Accepted**Not Accepted**

I affirm this work abides by the university's Academic Honesty Policy.

Print Name, then Sign

- First due date **Thursday, February 6.**
- Turn in your work on a separate sheet of paper with this page stapled in front.
- Do not include scratch work in your submission.
- There is to be **no collaboration** on any aspect of developing and presenting your proof. Your only resources are: you, the course textbook, me, and pertinent discussions that occur **during class.**
- Follow the Writing Guidelines of the Grading Rubric in the course information sheet.
- Retry: Only use material from the relevant section of the text or earlier.
- Retry: Start over using a new sheet of paper.
- Retry: Restaple with new attempts first and this page on top.

“Mathematics is the language with which God has written the universe” -Galileo Galilei, physicist and astronomer (1564-1642)

SLE-1 (Use only material up to and including Section TSS)

Suppose a system of linear equations is known to have at least one solution and that the coefficient matrix has a column of zeros. Prove that the system has infinitely many solutions.

[Note: That the row-reduced form of the augmented matrix will have a column of zeros may seem obvious but you are required to prove that fact if you wish to use it.]
