## Math 215 HW #5

Due 5:00 PM Thursday, February 25

Reading: Sections 2.3–2.4, 2.6 from Strang's Linear Algebra and its Applications, 4<sup>th</sup> edition.

**Problems:** Please follow the guidelines for collaboration detailed in the course syllabus.

- 1. Problem 2.3.6.
- 2. Problem 2.3.10.
- 3. Problem 2.3.26. If true say why; if false give a counterexample.
- 4. Problem 2.3.38.
- 5. Problem 2.4.10.
- 6. Problem 2.4.28. The second part of the problem is asking why you can't construct a matrix which has (1,0,1) and (1,2,0) as a basis for its row space and its nullspace.
- 7. Problem 2.4.32.
- 8. Problem 2.6.6.
- 9. Problem 2.6.14.
- 10. Problem 2.6.22.