## 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, $4^{\text {th }}$ 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.
