

Linear Algebra and its Applications, Spring 2013

Homework 5

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Note 1. This homework is due *8:30 am, October 15, 2013*. Please submit a hard copy into the homework box outside the TAs' lab.

Note 2. "Problem sets" and "Review exercises" should be found in the textbook (the fourth edition).

1. (5 points) Problem 7 in Problem set 2.6.
2. (5 points) Problem 9 in Problem set 2.6.
3. (5 points) Problem 11 in Problem set 2.6.
4. (5 points) Problem 14 in Problem set 2.6.
5. (10 points) Problem 27 in Problem set 2.6.
6. (10 points) Problem 36 in Problem set 2.6.
7. (5 points) Review exercise 2.30.
8. (10 points) Problem 1 in Problem set 3.1.
9. (5 points) Problem 6 in Problem set 3.1.
10. (5 points) Problem 7 in Problem set 3.1.
11. (10 points) Problem 11 in Problem set 3.1.
12. (10 points) Problem 12 in Problem set 3.1.
13. (5 points) Problem 18 in Problem set 3.1.
14. (10 points) Problem 19 in Problem set 3.1. Note that to fully prove the statement, you need to show two things: When such x exists, such y will not exist, and vice versa.