18.06 Spring 2013 – Problem Set 9

This problem set is due Thursday, May 2nd, 2013 at 4pm (hand in to Room 2-255). The textbook problems are out of the 4th edition. A correct answer will only earn you half of the available points. The other half of the points come from your explanation.

Note: Your recitation instructor is responsible for allowing late homework submissions, as well as the re-grading of your PSet. If there is any problem with your PSet, contact your recitation instructor!

- 1. (10 pts) Do Problem 4 from Section 6.6.
- 2. (10 pts) Do Problem 6 from Section 6.6.
- 3. (10 pts) Do Problem 17 from Section 6.6.
- 4. (10 pts) Do Problem 18 from Section 6.6.
- 5. (10 pts) Do Problem 20 from Section 6.6.
- 6. (10 pts) Do Problem 3 from Section 6.7.
- 7. (10 pts) Do Problem 6 from Section 6.7.
- 8. (10 pts) Do Problem 7 from Section 6.7.
- 9. (10 pts) Do Problem 14 from Section 6.7.
- 10. (10 pts) For which matrices is Σ in the SVD the same as the eigenvalue matrix Λ in diagonalization ?