## Math 215 HW #7

Due 5:00 PM Thursday, March 25

Reading: Sections 3.3–3.4 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 3.3.8.
- 2. Problem 3.3.12.
- 3. Problem 3.3.22.
- 4. Problem 3.3.24.
- 5. Problem 3.3.25. For extra credit, actually determine the best-fit parabola.
- 6. Problem 3.4.4.
- 7. Problem 3.4.6.
- 8. Problem 3.4.12.
- 9. Problem 3.4.18.
- 10. Problem 3.4.32.
- 11. (Bonus Problem) Problem 3.4.24. The Legendre polynomials are discussed on pp. 184–5.