

Homework 17: Determinants, Eigenvalues, and Eigenvectors

*Assignments should be **stapled** and written clearly and legibly. Problems 5 and 6 are optional.*

1. §2.1, #22, 28, 30.
2. §2.2, #12, 23, 29.
3. §2.3, #8.
4. §5.1, #3, 4, 28, 33.

For Problem 28, use the definition of trace given on page 36 of the textbook. For Problem 33, you should not use any determinants in your proof.

5. (Bonus) §2.1, #41.
6. (Challenge) §5.1, #32.