

Math 121A – Homework 9

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Reading: Sections 4.1 and 4.2. In section 4.1, ignore everything from page 204 on. In section 4.2, ignore the proof on page 214.

Note: Remember that there is no lecture/discussion on Monday, May 27, because of Memorial Day. This homework assignment is shorter than usual, to give you some well-deserved rest :)

- **Section 4.1:** 1, 4(a), 9, 11
- **Section 4.2:** 1, 3, 5, 21, 23, 28, 29, AP

Additional Problem: Prove Theorem 4.3 in the case $r = 1$ (no induction required, just use the definition of the determinant)