

**Homework 9, due October 31**

1. Exercise 11.4, p. 62. (Start by verifying the sentence before the theorem: “[T]he addition and multiplication operations . . . depend only on the equivalence sets and not on any particular vectors used in representing the sets.”)
2. Exercise 11.5, p. 62. (Assume everything finite-dimensional.)
- 3–5. Exercises 15.3, 15.4, and 15.5, pp. 91–92.
6. Exercise 16.4, p. 96.