

MATH 314 ASSIGNMENT 6, FALL 2016

Due in class on Friday, February 26

Part 1. Read chapter 4 of Hoffman–Kunze.

Part 2. Do and hand in the following problems in Hoffman–Kunze.

- 3.7, problems 6, 7. In addition, for problem 7 please explain in what sense is the map $T \mapsto T^t$ an isomorphism: Is it an isomorphism of vector spaces over F ? Does it preserve multiplication? Is it an isomorphism of groups (and which group structures)?
- 4.2, problem 9
- 4.3, problems 4, 6
- 4.4, problems 6, 7
- 4.5, problems 4, 8