

Math 500: Graduate Algebra.      Instructor: Walton  
**Homework #4 on Group Actions and Automorphisms**

**Due: Wednesday, September 25, 2019 at the beginning of class.**

Include full statements of problems in your solution set. See syllabus for grading guide.

Let  $G$  denote a group.

- (1) Dummit-Foote §4.1, #1, 2
- (2) Dummit-Foote §4.2, #4, 7
- (3) Dummit-Foote §4.2, #8
- (4) Dummit-Foote §4.2, #9
- (5) Dummit-Foote §4.3, #2, 3
- (6) Dummit-Foote §4.3, #28, 34
- (7) Dummit-Foote §4.3, #29
- (8) Dummit-Foote §4.4, #2
- (9) Dummit-Foote §4.4, #6, 7
- (10) Dummit-Foote §4.4, #13, 14