

Unless otherwise noted, homework problems are from *Abstract Algebra, 3rd Edition* by Dummit & Foote.

1. [**120pts**] From section 4.5 do problems 1, 8, 29, 37
2. [**30pts**] From section 4.6 do problem 4 (please don't just blindly copy this one...make sure you understand the proof you submit).