

Math 305, fall '07, homework assignments
(subject to change)

All sections refer to “Modern Algebra: An Introduction”, 5th edition, by John Durbin

Section	Homework Assignment
1	2, 15, 18, 19, 20, 21, 24, 27, 28
2	3, 4, 10, 17, 22
3	1, 3, 5, 7, 19, 21, 23
5	2, 5, 8, 11, 13, 15, 19, 21, 22
6	1, 4, 7, 9, 11, 12
7	2(a)(c), 7, 8, 11, 13, 14, 22, 23, 24
8	3, 7, 14
9	6, 8, 15, 20
10	6, 10, 13, 20, 24
11	16, 17, 18
12	6, 8, 12, 15, 19, 21
13	16, 17
14	4, 14, 19, 24, 28, 34, 36
15	6, 8, 9, 12, 14, 19, 20, 26, 28
16	4, 6, 7, 9, 14, 19, 20
17	4, 10, 14, 20, 24, 27, 33 (use Thm 17.1(c) for second part)
18	2, 6, 10, 11, 14, 16
19	6, 10, 14, 17, 18, 19, 25, 30 (use problem 27)
20	2, 3
21	4, 15, 17, 20, 23, 25, 26, 32 (use an earlier problem from this list)
22	6, 9, 12, 13
23	6, 9, 12, 18
55	2, 6, 12, 13, 14
24	10, 14, 17, 18, 22
25	2, 4, 8, 11, 13, 14, 19
26	4, 6, 8, 10, 16, 17, 23
27	3, 4, 13, 15, 16, 19, 23, 27
32	6, 14, 17
34	6(a), 8, 11
35	5, 12(a)(c)(e)
37	9, 10, 11, 12
38	4, 10 (take only nonzero homomorphisms), 11, 16, 18, 24
39	6, 7, 8, 12
40	8, 10, 16
41	2(a), 9, 12