

## Assignment #2

Problems from textbook 3.2, 3.6, 3.11, 3.16(i), 3.20, 3.23 cdef

Exam 1 covers chapters 1, 2, 3 and  $\frac{1}{2}$  of Chapter 4.

Scheduled for Wednesday February 8.

**3.2** Addition and multiplication tables for  $\mathbb{Z}_8$ .

+	0	1	2	3	4	5	6	7
0	0	1	2	3	4	5	6	7
1	1	2	3	4	5	6	7	0
2	2	3	4	5	6	7	0	1
3	3	4	5	6	7	0	1	2
4	4	5	6	7	0	1	2	3
5	5	6	7	0	1	2	3	4
6	6	7	0	1	2	3	4	5
7	7	0	1	2	3	4	5	6

·	0	1	2	3	4	5	6	7
0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7
2	0	2	4	6	0	2	4	6
3	0	3	6	1	4	7	2	5
4	0	4	0	4	0	4	0	4
5	0	5	2	7	4	1	6	3
6	0	6	4	2	0	6	4	2
7	0	7	6	5	4	3	2	1