

Discrete Math 2200. Problem Set 1

Due date: Thursday, September 4, in class. Late homeworks are not accepted, except for a medical or some other university approved reason.

Unless specified otherwise, the numbering of the exercises below is as in the textbook (Rosen, ed. 6). Only even numbered exercises will be graded, but I recommend you try to do all of them for practice.

Problem 1: Conditionals. page 18: ex. 18 b,c,d; ex. 19 b,d,h; ex. 22 b; ex. 23 a,b,c.

Problem 2: Truth tables. page 19: ex. 29 a,c; ex. 30 d,e.

Problem 3: Laws of propositional logic. page 29: ex. 25, ex. 30, ex. 41.

Problem 4: Quantifiers. page 47: ex. 14 b,c; ex. 15 b,c; ex. 23 a,e; ex. 24 b,d; ex. 33 b,e; ex. 37 b,c.

Problem 5: More quantifiers. page 60: ex. 14 d,f; ex. 15 e,f. page 61: ex. 24 b; ex. 25 b; ex. 28 c,f; ex. 33 d. page 62: ex. 40 b,c.

Extra problem(s) will not be graded: page 21, ex. 65. page 62, ex 49.