

MATH/CS 307: Discrete Mathematics
Spring 2016
Problem List

| Section | Problems | Due Date |
|---------------------------------|--|---------------|
| 1.1 | # 1,4,7,10,13,16,20,24,28,32,36,37,47,53,57,64,68,76,77,80,83,87 | Friday 22 Jan |
| 1.2 | #1,7,10,12*,15*,16,19,22,25,28,33,36,39,40,42,44,45,55-59,66,67,74 *Give a proper negation of the proposition. That is, do not use some version of "It is not the case that..." | Friday 29 Jan |
| 1.3 | #1,3-8,11,12,13,16,19,21,24,27,30,31,34,43,44-49,52,53,59,68*,70,73 <u>Problem A:</u> SHOW whether or not the propositions $P = p \wedge (q \vee r)$ and $Q = (p \wedge q) \vee (p \wedge r)$ are logically equivalent. * For # 68, use the directions from Problem A. That is, it is <i>not sufficient</i> to simply <i>state</i> whether the two propositions are equivalent. You must give a sound explanation of your conclusion. | Friday 29 Jan |
| 1.4 | # 1-5, 6,9,11-15,18,21,24 | Friday 29 Jan |
| 1.5 | # 12-20,21,24,27,28,31,34,35,38,41,43,44,47,48,49-54,55* *Only negate symbolically. #’s 57-66 are amusing, but not required. | Friday 5 Feb |
| 1.6 | #37-60,64-66* *You don’t have to use the Logic Game to make your argument. | Friday 5 Feb |
| 2.1 | #7,10,13,19,22,25,31,33,37 | Friday 12 Feb |
| 2.2 | #3,4,6,19,22,30,41 | Friday 12 Feb |
| 2.4 | #1-7,12,14,21,27 | Friday 12 Feb |
| 2.5 | #1,2,6-10, 14, 16,19 | Monday 15 Feb |
| split between Test 1 and Test 2 | | |
| 3.1 | #1,4,6,9,10,13,23,26,32,35,41,48,51,62,70 | Friday 26 Feb |