

HOMEWORK 2
DISCRETE MATHEMATICS I
DUE 01-24

Show your work!

- (1) (a) Make a truth table for “ p and q ”, using 0 for false and 1 for true.
(b) Explain why some logicians write “ pq ” instead of “ $p \wedge q$ ”.
 - (2) (a) Translate the sentence “You will achieve your dreams unless you get distracted” into a sentence of the form “If _____, then _____.”
(b) Translate “ p unless q ” into a conditional. (You will need to use negation.)
(c) Make a truth table for the statement “ p unless q .”
- **Nine** problems from the notes: #1.1.24, 40, 48, 50, 51, 54, 56, 62, 68.