

CSc 245 Discrete Structures - Summer 2021

Quiz #1

Due: June 15th, 2021 by 11:59 pm (MST)

1. Consider the following four propositions:

p : It is the weekend q : Nish has homework to do.

r : The weather is nice s : Nish's hang's out with his friends.

- (a) Convert the following English statement to logic:

"When Nish hang's out with his friends, it is either the weekend or the weather is nice and he doesn't have homework to do."

- (b) Convert the following logical expression to conversational English: $((p \wedge \neg r) \vee (\neg p \wedge q) \rightarrow \neg s$

- (c) Create a truth table for your answer to (a).