

Name: _____ Student#: _____ Date: _____

COMP 2711: Discrete Mathematical Tools for Computer Science

In Class Exercise #1

1. Construct a truth table for the statement $\neg((p \vee q) \wedge \neg p) \wedge \neg p$

2. Are the following statements logically equivalent:

$$(\neg p \wedge (\neg p \wedge q)) \vee (p \wedge (p \wedge \neg q))$$

$$(\neg p \wedge q) \vee (p \wedge \neg q)$$