Math 112 - Quiz 7

Name _____

March 28, 2018

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (5 points) Consider the following conditional statement:

If Jon skips school, then Jon eats pizza.

- (a) State the inverse.
- (b) State the contrapositive.
- (c) State the converse.
- (d) Which statement is logically equivalent to the original statement? Circle your choice.

Inverse	Contrapositive	Converse

(e) Which statement is logically equivalent to the converse? Circle your choice.

Inverse Contrapositive Original

 $Over \longrightarrow$

2. (5 points) Consider the following argument.

If it is Wednesday, then Sue will eat at *Good Burger*. It is not Wednesday. Therefore, Sue will not eat at *Good Burger*.

(a) Write the argument in symbolic form.

(b) Use the truth table method to determine the validity of the argument.