

Math 2283 - Introduction to Logic

Quiz #4 - 2016.01.22 Solutions

Determine the truth or falsity of each of the following sentences.

1. If the year is 2016 and today is Friday, then the South lost the civil war.

Since the consequent is true, the conditional sentence is true.

2. If the year is 2016 and today is Saturday, then the South lost the civil war.

Since the hypothesis is false and the consequent is true, the conditional sentence is true.

3. If the year is 2016 or today is Saturday, then the South lost the civil war.

Since the consequent is true, the conditional sentence is true.

4. If the year is 2016 and today is Saturday, then the South did not lose the civil war.

Since the hypothesis is false and the consequent is false, the conditional sentence is true.

5. If the year is 2016 or today is Saturday, then the South did not lose the civil war.

Since the hypothesis is true and the consequent is false, the conditional sentence is false.

6. If the year is 2015 or today is Saturday, then the South did not lose the civil war.

Since the hypothesis is false, the conditional sentence is true.