

# Math 2283 - Introduction to Logic

## Quiz #11 - 2016.02.10 Solutions

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1. Determine which of the following sentences are true:

(a) Oklahoma is a state in the USA.

This is a true sentence.

(b) "Oklahoma" is the name of a state in the USA.

This is a true sentence.

(c) "Oklahoma" is a state in the USA.

This is a false sentence.

(d) Oklahoma is the name of a state in the USA.

This is a false sentence.

2. What is the difference between a sentential function and a designatory function?

When replacing variables by constants in a sentential function, the result is a sentence. When replacing variables by constants in a designatory function, the result is another constant.

3. State the Rule of Detachment.

Given a conditional sentence is true, as is its hypothesis, then the conclusion by itself is also true.