

# Math 2283 - Introduction to Logic

## Quiz #6 - 2017.02.06 Solutions

---

What is the difference between the Rule of Replacement and the Rule of Substitution?

In the Rule of Substitution, we are replacing all instances of a sentence (like  $p$ ,  $q$  etc...) with other sentences, in a logical law.

The Rule of Replacement allows us to use the definition of "equals" to replace variables/constants with other variables/constants and not universally so, in logical laws, sentential functions, and so on.