

Math 2283 - Introduction to Logic

Quiz #18 - 2016.02.26

Name: _____

1. Prove (or disprove) that the two sentential functions: $p \rightarrow q$ and $(p \vee q) \rightarrow q$ are equivalent.

2. Define $U = \mathbb{N}$ to be the set of all positive integers, and $\mathbb{K} = \{6, 12, 18, \dots\}$. Determine *all* values which make the following sentential function true.

$$\forall x \in \mathbb{K} (x/y \in \mathbb{N} \wedge y \in \mathbb{K}')$$