

Homework 4 Solutions

Due 11/15/2020
 Name: _____

The following problems deal with the behavior of mathematical functions for natural numbers and will often require induction.

1. Let $P(n)$ be the statement " n is a natural number" and $Q(n)$ be the statement " n is a natural number".

Prove that $P(n) \rightarrow Q(n)$ and $Q(n) \rightarrow P(n)$ for all $n \in \mathbb{N}$. (Note: $P(n)$ and $Q(n)$ are both true for all $n \in \mathbb{N}$.)

$$P(n) \rightarrow Q(n) = \text{true} \quad \text{and} \quad Q(n) \rightarrow P(n) = \text{true} \quad \text{for all } n \in \mathbb{N}.$$

For the second part, we consider the statement " n is a natural number" and we see that $P(n) \rightarrow Q(n)$ is true for all $n \in \mathbb{N}$ and $Q(n) \rightarrow P(n)$ is true for all $n \in \mathbb{N}$.

2. Prove that the statement " n is a natural number" is true for all $n \in \mathbb{N}$. (Note: n is a natural number for all $n \in \mathbb{N}$.)

Proof:
 Let $n \in \mathbb{N}$.
 Then n is a natural number.

$$P(n) \rightarrow Q(n) = \text{true} \quad \text{and} \quad Q(n) \rightarrow P(n) = \text{true} \quad \text{for all } n \in \mathbb{N}.$$

For the first part, we consider the statement " n is a natural number" and we see that $P(n) \rightarrow Q(n)$ is true for all $n \in \mathbb{N}$.

Let $n \in \mathbb{N}$.
 Then n is a natural number.

$$P(n) \rightarrow Q(n) = \text{true} \quad \text{and} \quad Q(n) \rightarrow P(n) = \text{true} \quad \text{for all } n \in \mathbb{N}.$$

For the second part, we consider the statement " n is a natural number" and we see that $P(n) \rightarrow Q(n)$ is true for all $n \in \mathbb{N}$ and $Q(n) \rightarrow P(n)$ is true for all $n \in \mathbb{N}$.

Let $n \in \mathbb{N}$.
 Then n is a natural number.

$$P(n) \rightarrow Q(n) = \text{true} \quad \text{and} \quad Q(n) \rightarrow P(n) = \text{true} \quad \text{for all } n \in \mathbb{N}.$$

For the third part, we consider the statement " n is a natural number" and we see that $P(n) \rightarrow Q(n)$ is true for all $n \in \mathbb{N}$ and $Q(n) \rightarrow P(n)$ is true for all $n \in \mathbb{N}$.

Let $n \in \mathbb{N}$.
 Then n is a natural number.

3. Prove that the statement " n is a natural number" is true for all $n \in \mathbb{N}$. (Note: n is a natural number for all $n \in \mathbb{N}$.)

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Michael Hoelscher



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