

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 function $f(n)$ defined for all $n \in \mathbb{N}$, prove that $f(n)$ is a natural number for all $n \in \mathbb{N}$. (Note: $f(n)$ is a natural number for all $n \in \mathbb{N}$.)

2. Prove that the function $f(n)$ defined for all $n \in \mathbb{N}$ is a natural number for all $n \in \mathbb{N}$. (Note: $f(n)$ is a natural number for all $n \in \mathbb{N}$.)

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

$$f(n) = \frac{n(n+1)}{2} = \frac{n^2 + n}{2} = \frac{n^2}{2} + \frac{n}{2} = \frac{n^2 + n}{2} = \frac{n(n+1)}{2} = f(n)$$

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3. Prove that the function $f(n)$ defined for all $n \in \mathbb{N}$ is a natural number for all $n \in \mathbb{N}$.

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Clemens Wendtner



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