

## 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  $n \in \mathbb{N}$ .)

$$P(n) \rightarrow Q(n) = \text{true} \quad \text{and} \quad Q(n) \rightarrow P(n) = \text{true}$$

For the second part, we consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ . We consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ . We consider the statement  $P(n) \rightarrow Q(n)$  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.

$$P(n) \rightarrow Q(n) = \text{true} \quad \text{and} \quad Q(n) \rightarrow P(n) = \text{true}$$

For the third part, we consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ .

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

$$P(n) \rightarrow Q(n) = \text{true} \quad \text{and} \quad Q(n) \rightarrow P(n) = \text{true}$$

For the fourth part, we consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ . We consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ . We consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ .

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

$$P(n) \rightarrow Q(n) = \text{true} \quad \text{and} \quad Q(n) \rightarrow P(n) = \text{true}$$

For the fifth part, we consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ . We consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ . We consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ .

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

For the sixth part, we consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ . We consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ . We consider the statement  $P(n) \rightarrow Q(n)$  for all  $n \in \mathbb{N}$ .

# Homework Mathematical Analysis Johnsonbaugh

**Wiesława J. Kaczor, Maria T. Nowak**



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