

Elementary Analysis: The Theory of Calculus by Ross Exercise Solutions

Khang Tong

Chapter 1: The Set \mathbb{N} of Natural Numbers

1. Prove $1^2 + 2^2 + \cdots + n^2 = \frac{1}{6}n(n+1)(2n+1)$ for all positive integers n .

Solution:

Base Case: $1 = \frac{1}{6}(1)(2)(3) = 1$ ✓

Inductive Step: Assume that $1^2 + 2^2 + \cdots + n^2 = \frac{1}{6}n(n+1)(2n+1)$ is true for some $n \in \mathbb{N}$. Then,

$$\begin{aligned}1^2 + 2^2 + \cdots + n^2 + (n+1)^2 &= \frac{1}{6}n(n+1)(2n+1) + (n+1)^2 \\&= \frac{1}{6}n(n+1)(2n+1) + \frac{6(n+1)^2}{6} \\&= \frac{1}{6}(n+1)[n(2n+1) + 6(n+1)] \\&= \frac{1}{6}(n+1)[2n^2 + n + 6n + 6] \\&= \frac{1}{6}(n+1)(n+1+1)(2(n+1)+1)\end{aligned}$$

Hence, $1^2 + 2^2 + \cdots + n^2 = \frac{1}{6}n(n+1)(2n+1)$ for all $n \in \mathbb{N}$ ■

2. Prove $3 + 11 + \cdots + (8n - 5) = 4n^2 - n$ for all positive integers n .

Solution:

Base Case: $3 = 4(1)^2 - 1 = 3$ ✓

Inductive Step: Assume that $3 + 11 + \cdots + (8n - 5) = 4n^2 - n$ for some $n \in \mathbb{N}$. Then,

$$\begin{aligned}3 + 11 + \cdots + (8n - 5) + (8(n+1) - 5) &= 4n^2 - n + (8(n+1) - 5) \\&= 4n^2 + 7n + 3 \\&= 4(n^2 + 2n + 1) - n - 1 \\&= 4(n+1)^2 - (n+1)\end{aligned}$$

Hence, $3 + 11 + \cdots + (8n - 5) = 4n^2 - n$ for all $n \in \mathbb{N}$ ■

3. Prove $1^2 + 2^2 + \cdots + n^2 = (1 + 2 + \cdots + n)^2$ for all positive integers n .

Elementary Analysis Theory Calculus Homework Solutions

Daniela Niemeyer



Elementary Analysis Theory Calculus Homework Solutions:

This book delves into Elementary Analysis Theory Calculus Homework Solutions. Elementary Analysis Theory Calculus Homework Solutions is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Elementary Analysis Theory Calculus Homework Solutions, encompassing both the fundamentals and more intricate discussions.

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