# Elementary Analysis: The Theory of Calculus by Ross Exercise Solutions

Khang Tong

#### Chapter 1: The Set N of Natural Numbers

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

#### Solution:

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

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

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

Hence,  $1^2 + 2^2 + \cdots + n^2 = \frac{1}{8}n(n+1)(2n+1)$  for all  $n \in \mathbb{N}$ 

Prove 3 + 11 + · · · + (8n − 5) = 4n<sup>2</sup> − 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,

$$3 + 11 + \cdots + (8n - 5) + (8(n + 1) - )5 = 4n^2 - n + (8(n + 1) - 5)$$
  
=  $4n^2 + 7n + 3$   
=  $4(n^2 + 2n + 1) - n - 1$   
=  $4(n + 1)^2 - (n + 1)$ 

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

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

# **Elementary Analysis The Theory Of Calculus Solution Manual**

**Kenneth A. Ross** 

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