

# 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 Ross Solutions

**SJ Ball**



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Elementary Analysis Kenneth A. Ross, 2013-04-16 For over three decades this best selling classic has been used by thousands of students in the United States and abroad as a must have textbook for a transitional course from calculus to analysis It has proven to be very useful for mathematics majors who have no previous experience with rigorous proofs Its friendly style unlocks the mystery of writing proofs while carefully examining the theoretical basis for calculus Proofs are given in full and the large number of well chosen examples and exercises range from routine to challenging The second edition preserves the book s clear and concise style illuminating discussions and simple well motivated proofs New topics include material on the irrationality of pi the Baire category theorem Newton s method and the secant method and continuous nowhere differentiable functions

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**Introduction to Numerical Ordinary and Partial Differential Equations Using MATLAB** Alexander Stanoyevitch, 2011-10-14 Notices of the American Mathematical Society American Mathematical Society, 1980 *Applied Mechanics Reviews* , 1969 Mathematical Reviews , 2001 *Neoclassical Analysis*

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