TOPIC

Mathematics – Section I – Question 1

QUESTION

The length of the curve $y = x^2$ from x = 0 to 3 most nearly is

- (A) 3.000
- (B) 9.000
- (C) 9.487
- (D) 9.747

HINT

The length of a curve y(x) from x = a to b is given by

$$s = \int_{a}^{b} \sqrt{1 + \left(\frac{dy}{dx}\right)^2} \, dx$$