

Given curve $x = \int_0^y \sqrt{\sec^4 t - 1} dt, \quad -\frac{\pi}{4} \leq y \leq \frac{\pi}{4}$

Now calculating the derivative first

$$\frac{dx}{dy} = \sqrt{\sec^4 y - 1}$$

We know that the length of the curve $y = g(y)$ from $y = c$ to $y = d$ is $\int_c^d \sqrt{1 + \left(\frac{dx}{dy}\right)^2} dy$

Hence the required length of the curve is

$$L = \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \sqrt{1 + \left(\sqrt{\sec^4 y - 1}\right)^2} dy$$

$$= \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \sqrt{(\sec^4 y)} dy$$

$$= \int_{-\frac{\pi}{4}}^{\frac{\pi}{4}} \sec^2 y dy$$

$$= [\tan y]_{-\frac{\pi}{4}}^{\frac{\pi}{4}}$$

$$= (1) - (-1)$$

$$= \boxed{2}$$

Chapter Applications Of Definite Integrals Answers

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Franklyn Smith**



Chapter Applications Of Definite Integrals Answers:

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