

8] l is a segment, C is a curve in the three dimensional space.

$$\begin{cases} l ; x = 1, y = z = 0 \ (0 \leq y \leq 1) \\ C ; x = 0, z = y^2 \ (0 \leq y \leq 1) \end{cases}$$

Take points P, Q in l, C , respectively. E is the space where the segment PQ can pass.

What is the volume of E ?

