1921079642

Enample: 07:

hiven region: R: y=vn and y=n.

for the interval, net In = 11.

y = Jh

i. n= y2

: n=y.

=> n=ne

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=> ルニハ=0.

 $\Rightarrow n(n-1)=0$

Now,

" u=0

Os, n-1=0

1 n=1,

: Interval T=[0,1]

.. The value of the Solid:

$$\pi \int [(y^2)^2 - (y)^2] dy$$

$$= x \int (y^{4} - y^{2}) dy$$

$$= x \int (y^{5} - y^{2}) dy$$

$$= x \left[\frac{(1)^{5}}{5} - \frac{(1)^{3}}{3} \right] - \left[\frac{(0)^{5}}{5} - \frac{(0)^{3}}{3} \right]$$

$$= x \left[\frac{1}{5} - \frac{1}{3} - 0 + 0 \right]$$

$$= x \left[\frac{3 - 5}{15} \right]$$

$$= x \left[\frac{-2}{15} \right]$$

(Am)