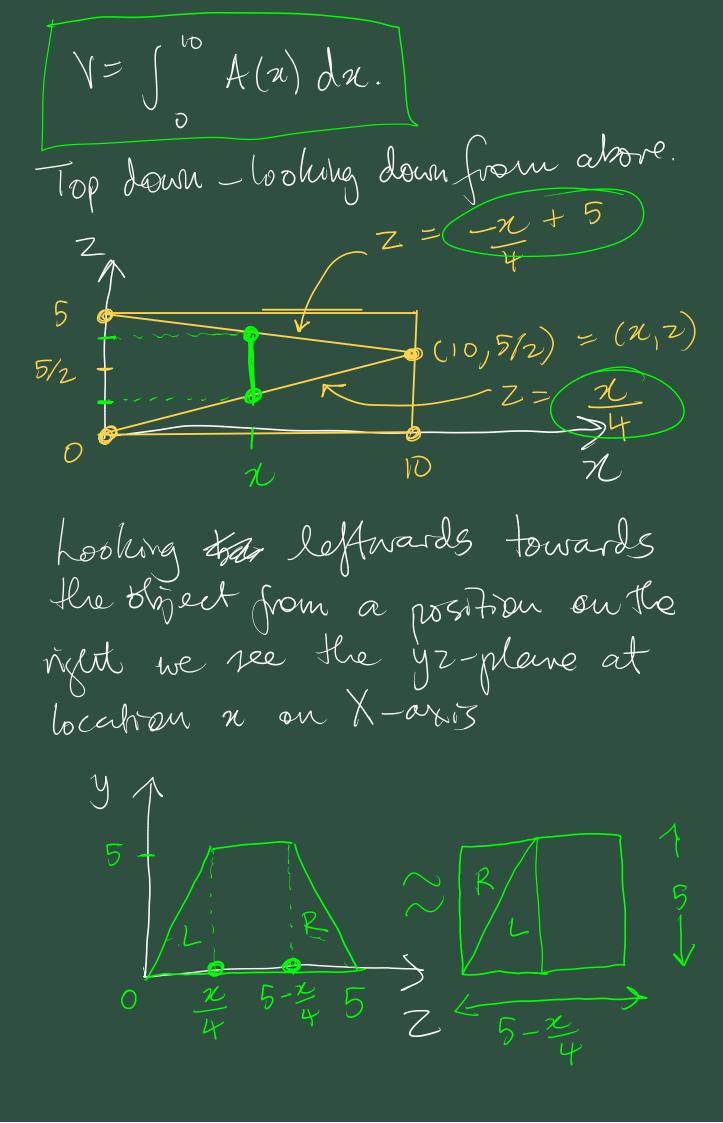
area throgh V at rosiliou n $-\pi\Gamma(\pi)$ where R, rare outer and inner rodin as shown R(n) = (n) = n.

So runified by theorem 7.7.3 $V = \int A(n) dn$. $= \pi \left(\int_{-\infty}^{2} - n \right) dn$ = $\int_{D} (x - n^2) dx$. $= \pi \left[\frac{\chi^2}{2} - \frac{\chi}{3} \right]^{1}$ $\left(\frac{1}{2}-\frac{1}{3}\right)$ d (x,0,0)By theorem 7,2,3 we can express the volume



So
$$A(n) = 5(5-\frac{\pi}{4})$$

= $25 - 5\pi$

So the volume should be.

 $V = \int (25 - \frac{5\pi}{4}) d\pi$.

= $\left[25\pi - \frac{5\pi}{8}\right] 0$

= $25\pi - \frac{5\pi}{8}$

= $250 - \frac{125}{2}$

- 375

- 187.5

ス= y~ (=) y= (元) $V = 2\pi \int_{-\infty}^{\infty} (y) h(y) dy$ $=2\pi \int_{0}^{1} y \left(y-y^{2}\right) dy$ $= 2\pi \int_{0}^{\pi} (y^{2} - y^{3}) dy$ $2\pi \left[\frac{y^3}{2} - \frac{y}{4} \right]$ $\begin{bmatrix} \frac{1}{3} - \frac{1}{4} \end{bmatrix}$ = to , as expected from previous

7.2.
$$2 \cdot 10^{-10}$$
 $4(x) = \pi \cdot 10^{2}$
 $4(x) = \pi \cdot 10^{2}$
 $-x + 10$
 $-x +$

$$= -\pi \left[-2 \left(5^{3} \right) \right]$$

$$= 2\pi 125$$

$$= 250\pi$$

$$= 3$$







