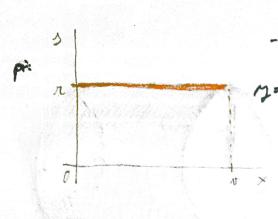
pi: ) f(x) dx; f(4)= { \*; x \ (1:27  $\int_{1}^{3} x^{2} dx = \left( \frac{x^{3}}{3} \right)^{2} = \frac{8}{3} - \frac{1}{3} = \frac{2}{3}$ 18 dx = 48 5 1 dx 2 [lu/x/] = 8.lu1-lu2) = 8 lu2 pi: ] (x+1x-11) dx  $\int_{1}^{2} 1 dx = \left[ x \right]_{1}^{2} = 1 - (-2) = 3$   $\int_{2}^{2} 2x - 1 dx = \left[ x^{2} - x \right]_{1}^{2} = 2 - 0 = 2$   $\Rightarrow 3 + 2 = 5$  $\int_{2}^{1} x^{2} + x - 2 \, dx = \left[ \frac{x^{3}}{3} + \frac{x^{2}}{2} - 2x \right]_{-2}^{2} = -\frac{7}{6} \frac{10}{5} = -\frac{7}{6} \frac{10}{6} = \frac{10}{6}$ x = 2 - x2 x2+x-2=0

77-7, x2=-2

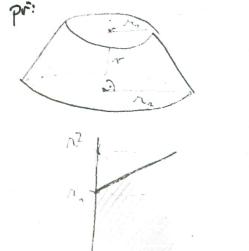
x £ <-2;1>

Objemy robotuch tels:



-wich objen vale o výde o a polimbru r

 $V = \pi \cdot \int_{0}^{\infty} (r)^{2} dx = \pi \left[ \pi^{2} \cdot \times \right]_{0}^{\infty} = \pi \left( \pi^{2} v - \kappa^{2} 0 \right) = \pi \kappa^{2} v$ 



MAX 
$$V = \pi \cdot \int \left( -\frac{r_{1}-r_{2}}{N} \cdot x - r_{1} \right)^{2} dx =$$

$$\pi \cdot \int \frac{(r_{1}-r_{2})^{2}}{N^{2}} x^{2} - 2 \cdot \frac{(r_{1}-r_{2})r_{1}}{N} x + r_{1}^{2} dx =$$

 $= \pi \left[ \frac{(\mathcal{R}_1 - \mathcal{R}_2)^2}{\sqrt{3}} \cdot \frac{\times^3}{3} - \frac{(\mathcal{R}_1 - \mathcal{R}_2)\mathcal{R}_1}{\sqrt{3}} \cdot \times^2 + \mathcal{R}_1^2 \times \int_0^{\sqrt{3}} =$ 

 $= \pi \cdot \left( \frac{(R_1 - R_2)^2}{N^2} \cdot \frac{N^2}{3} - \frac{(R_1 - R_2)R_1}{N^2 + R_1 N^2} - 0^2 \right)$ 

= T( 21-22).N - (24-22)24. N+24 N)=

= x.w ( 1-1/2 - (1-1/2) /2 + /2) =

=7 × (1, 1, -1, (31, -31). 1, + 31, 3 =

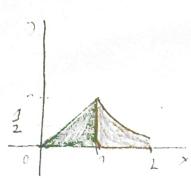
=71-10- (12-12-322-322)=

to me doutes.

= 3 ( /2 + /2 + /2 + /2 )

1: 7 = - 12 × + 12

V= 12 (1,2 11,12 +1,2)

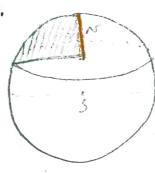


$$V = \frac{1}{3} S_{p} \cdot \frac{1}{3} = \frac{1}{3} \pi \cdot 1 \cdot 1 = \frac{1}{3} \pi$$

$$V = \pi \cdot \int_{-\infty}^{\infty} \left( \frac{1}{x} \right)^{2} dx = \pi \cdot \int_{-\infty}^{\infty} x^{-2} dx =$$

$$= \pi \cdot \left[ -(x^{-1}) \right]_{-\infty}^{\infty} = m \cdot \frac{1}{2} \pi - 1 \pi = \frac{2}{2} \pi$$

$$= \frac{1}{3} \pi \cdot \frac{2}{3} \pi = \pi$$



$$= \pi \cdot \left( \frac{h^3 \cdot h^3}{3} \right) - \left( \frac{h^2(x-\nu)}{3} - \frac{(x-\nu)^3}{3} \right) \dots \text{ we jewer upon approximation.}$$

p= 2-1x-1





$$V = 2\frac{1}{3}S_{p} \cdot v = 2\cdot\frac{1}{3}\pi \cdot 2^{2} \cdot 2 = \frac{16}{3}\pi$$

$$V = \pi \cdot \int (x+1)^{2} dx + \pi \cdot \int (x+3)^{2} dx = 0 \text{ the Fasium,}$$

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