

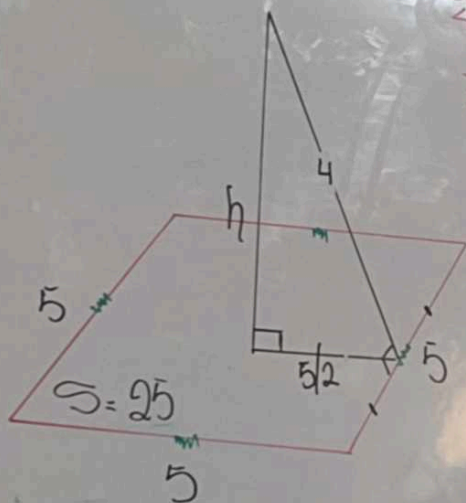
$$\frac{3m}{\eta} = \frac{4m}{H}$$

$$\frac{H}{\eta} = \frac{4}{3}$$

$$\frac{\frac{2 \cdot 2 \cdot \eta}{2 \cdot 3}}{(2a)^2 \cdot H} = \left[\frac{\frac{2a^2}{3}}{4a^2} \times \frac{\eta}{H} \right]$$

$$\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$$

02

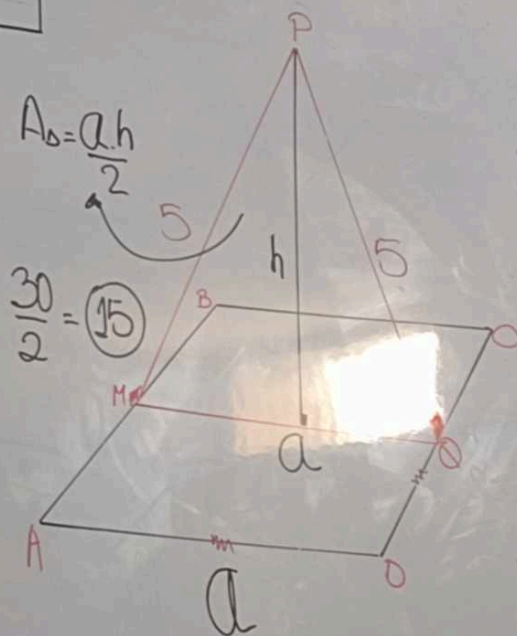


$$16 = \frac{25}{4} + h^2$$

$$\frac{39}{4} = h^2$$

$$h = \frac{\sqrt{39}}{2}$$

$$V = \frac{S \times h}{3} = \frac{25 \times \sqrt{39}}{3 \times 2} = \frac{25\sqrt{39}}{6}$$



$$A_b = \frac{a \cdot h}{2}$$

$$\frac{30}{2} = 15$$

$$\frac{AS_L}{2} = \frac{V}{a}$$

$$2 \times 5 = \frac{a \cdot h}{3}$$

$$30 = ah$$

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$$S = \frac{\pi r^2}{3}$$

$$S = \frac{27\pi}{3}$$

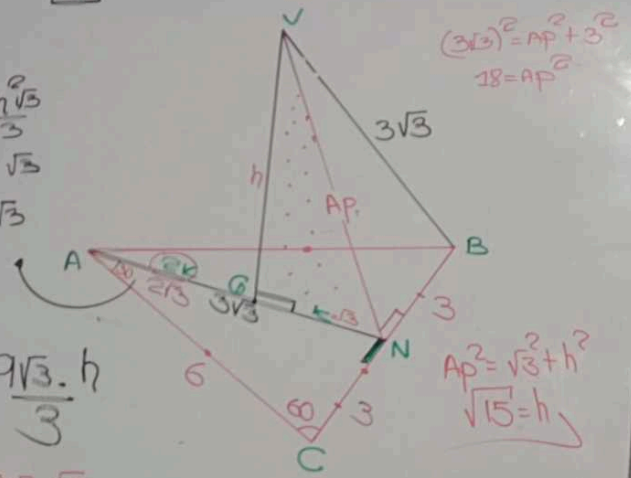
$$S = 9\pi$$

$$V = \frac{1}{3} \pi r^2 h$$

$$\frac{3\pi \cdot \sqrt{15}}{3}$$

$$\pi \sqrt{15}$$

$$(9\pi)$$

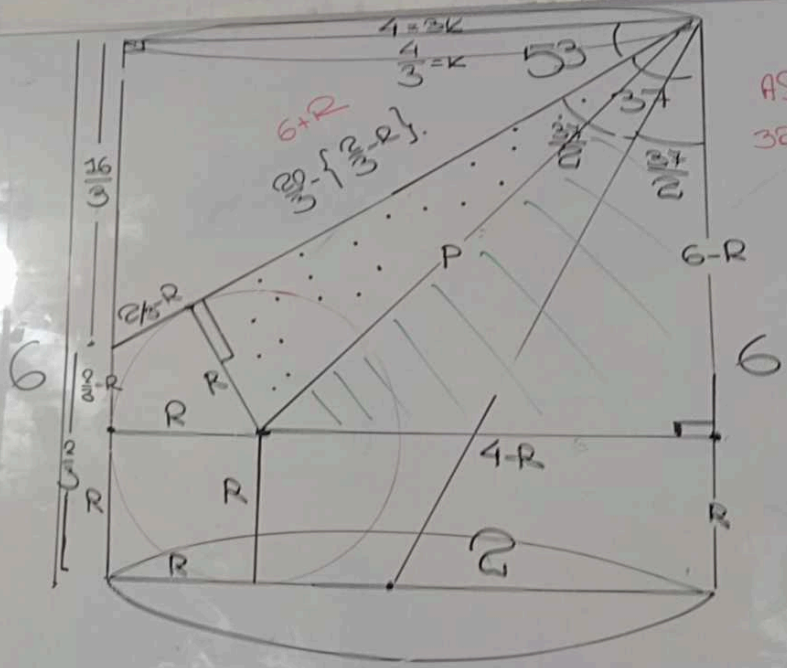


$$(3\sqrt{3})^2 = AP^2 + 3^2$$

$$18 = AP^2$$

$$AP^2 = \sqrt{3}^2 + h^2$$

$$\sqrt{15} = h$$



$$AS_{\text{r}} = 2\pi R (q + r)$$

$$32\pi = 2\pi (2) (q + 2)$$

$$q = 6$$

$$P^2 = (6+R)^2 + R^2 \quad | \quad P^2 = (6-R)^2 + (4-R)^2$$

$$\cancel{36} + \cancel{12R} + \cancel{R^2} + R^2 = \cancel{36} - \cancel{12R} + \cancel{R^2} + 16 - 8R + R^2$$

$$32R = 16$$

$$R = \frac{1}{2}$$

$$V = \frac{4}{3} \pi R^3 = \frac{4}{3} \pi \frac{1}{8} = \left(\frac{\pi}{6} \right)$$

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$AS_T = 2\pi R(g+R)$
 $32\pi = 2\pi(2)(g+2)$
 $g=6$

$6-R$
 6
 $R^2(3) + R^2(2) = R^2(5) + 30$
 $2R^2 - 2R^2 = 30$
 $R^2 - R^2 = 15$

$P^2 = (6+R)^2 + R^2 \mid P^2 = (6-R)^2 + (4-R)^2$
 $36 + 12R + R^2 + R^2 = 36 - 12R + R^2 + 16 - 8R + R^2$
 $32R = 16$
 $R = \frac{1}{2}$

$V = \frac{4}{3}\pi R^3 = \frac{4}{3}\pi \frac{1}{8} = \left(\frac{\pi}{6}\right)$

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 $\frac{2R}{2} = 2\sqrt{3}$
 $R = 2\sqrt{3}$

$V = 9\sqrt{3}\pi$
 $\frac{\pi R^2 \cdot R \sqrt{3}}{3} = 9\sqrt{3}\pi$
 $R=3$

a b
 $\frac{1}{a}n + \frac{1}{b}m = \frac{1}{c}c + \frac{1}{m}nc$