

$$\left(\overset{1^\circ}{\frac{1}{h}x} - \overset{2^\circ}{a} \right)^2$$

QUADRATO DI BINOMIO

QUADRATO
1° TERM.

DOPPIO
PRODOTTO
DEL 1° PER IL 2°

QUADRATO
2° TERM.

$$+ \frac{1}{h} x^2$$

=

$$2 \cdot \frac{1}{h} x \cdot a$$

$$+ a^2$$

+ CONCORDI

- DISCORDI

$$+ \frac{1}{h} x^2 - a x + a^2$$

OMOGENEO
SI 2°
COMPLETO a SI
ll x SI

DIFFERENZA DI QUADRATI

$$\begin{aligned} & (a+b)(a-b) = \\ & = a^2 - \cancel{ab} + \cancel{ab} - b^2 = \\ & = a^2 - b^2 \end{aligned}$$

$$\left(\frac{3}{2}a^2 - 2b\right)\left(\frac{3}{2}a^2 + 2b\right) =$$

$$= \frac{9}{4}a^4 - 4b^2$$

$$\begin{aligned}
& (a-2b)(a+2b) - (a-b)^2 - a^2 + 2b^2 = \\
& = a^2 - 4b^2 - (a^2 - 2ab + b^2) - a^2 + 2b^2 = \\
& = \cancel{a^2} - 4b^2 - \cancel{a^2} + 2ab - b^2 - a^2 + 2b^2 = \\
& = -a^2 + 2ab + (-4 - 1 + 2)b^2 = \\
& = -a^2 + 2ab - 3b^2
\end{aligned}$$

$$\frac{3}{4}a\left(a - \frac{2}{3}\right) + \left(\frac{1}{2}a + 3\right)^2 - (a+5)(a-1) =$$

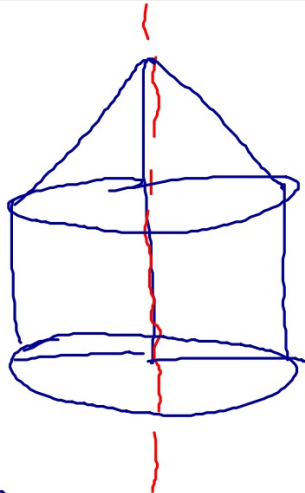
$$= \frac{3}{4}a^2 - \frac{1}{2}a + \frac{1}{4}a^2 + 2 \cdot \frac{1}{2} \cdot 3a + 9 - a^2 + 5a + 5 - (a^2 - a + 5a - 5)$$

$$= \frac{3}{4}a^2 - \frac{1}{2}a + \frac{1}{4}a^2 + 3a + 9 - a^2 + a - 5a + 5 - a^2 + a - 5a + 5$$

$$= \left(\frac{+3+1-4}{4}\right)a^2 + \left(\frac{-1+6+2-10}{2}\right)a + 14 =$$

$$= -\frac{3}{2}a + 14$$

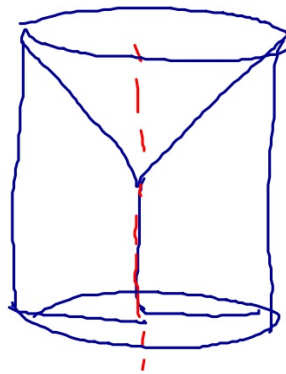
$$\begin{aligned}
& \left(3a - \frac{1}{2}b\right)^2 - \left(3a + \frac{1}{2}b^2\right)\left(3a - \frac{1}{2}b^2\right) - b^2\left(-3a + \frac{1}{2}b^2 + 1\right) \\
&= +9a^2 - 3ab + \frac{1}{4}b^2 - \left(+9a^2 - \frac{1}{4}b^4\right) + 3ab^2 - \frac{1}{2}b^4 - b^2 \\
&= \cancel{+9a^2} - 3ab + \frac{1}{4}b^2 - \cancel{9a^2} + \frac{1}{4}b^4 + 3ab^2 - \frac{1}{2}b^4 - b^2 \\
&= -3ab + 3ab^2 + \left(\frac{1}{4} - \frac{1}{2}\right)b^4 + \left(+\frac{1}{4} - 1\right)b^2 \\
&= -3ab + 3ab^2 + \left(\frac{+1-2}{4}\right)b^4 + \left(\frac{+1-4}{4}\right)b^2 \\
&= -3ab + 3ab^2 - \frac{3}{4}b^4 - \frac{1}{4}b^2
\end{aligned}$$



RUOTA
INTORNO
ALLA BASE
MA E CIORÈ

$$S_T = S_{b1} + S_{l1} + S_{l2}$$

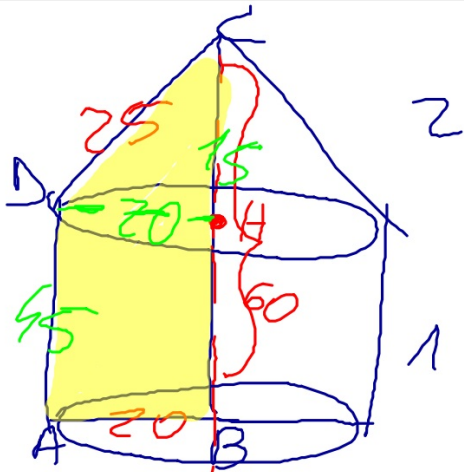
$$V_T = V_1 + V_2$$



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MINORE

$$S_T = S_{b1} + S_{l1} + S_{l2}$$

$$V_T = V_1 - V_2$$



D	1
$AB = 20 \text{ cm}$	St
$CD = 25 \text{ cm}$	Vt
$CH + HB = 60 \text{ cm}$	P
$\mu = 0,5$	

$$CH = \sqrt{CD^2 - DH^2} = \sqrt{25^2 - 20^2} = 15 \text{ cm}$$

$$BH = BC - CH = 60 - 15 = 45 \text{ cm}$$

$$Z_{pb} = AB \cdot 2\pi = 20 \cdot 2\pi = 40\pi \text{ cm}$$

$$S_b = AB^2 \pi = 20^2 \pi = 400\pi \text{ cm}^2$$

$$Sl_1 = Z_{pb} \cdot BH = 40\pi \cdot 45 = 1800\pi \text{ cm}^2$$

$$V_1 = S_b \cdot BH = 400\pi \cdot 45 = 18000\pi \text{ cm}^3$$

$$S_{L_{\text{no}}} = \frac{2pb \cdot V_{IK}}{2} \quad \left| \quad V_{\text{cono}} = \frac{S_b \cdot V_H}{3}$$

$$S_{L_2} = \frac{2pb \cdot CD}{2} = \frac{40\pi \cdot 25}{2 \cdot 5} = 500\pi \text{ cm}^2$$

$$V_2 = \frac{S_b \cdot CH}{3} = \frac{400\pi \cdot 15}{3} = 2000\pi$$

St

$$\begin{aligned} V_t &= V_1 + V_2 = 18000\pi + 2000\pi = \\ &= 20000\pi = 20.000 \cdot 3,14 \\ &62800 \text{ cm}^3 \end{aligned}$$

$$P = V_t \cdot \rho_{\lambda}$$