

N° 222

DATI

$2p_{rett} = 68 \text{ cm}$

$b_{rett} = h_{rett} + 8 \text{ cm}$

(rotazione intorno a h_{rett})

Sviluppo

$$68 = h + h + b + b$$

$$68 = h + h + (h+8) + (h+8)$$

$$68 = h + h + h + h + 8 + 8$$

$$68 = 4h + 16$$

$$\frac{68-16}{4} = h = 13 \text{ cm}$$

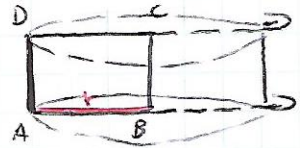
$$b = 13 + 8 = 21 \text{ cm}$$

$A_{base} = 21^2 \pi = 441 \pi \text{ cm}^2$

$2p_{base} = 2 \cdot 21 \cdot \pi = 42 \pi \text{ cm}$

$V = 21^2 \pi \cdot 13 = 5733 \pi \text{ cm}^3$

$S_{tot} = 42 \pi \cdot 13 + 2 \cdot 441 \pi = 546 \pi + 882 \pi = 1428 \pi \text{ cm}^2$



Richiesta

$S_{tot} = ? \quad V = ?$

$S_{tot} = S_{lat} + 2 \cdot A_{base}$
 \downarrow
 $2p_{base} \cdot h_{cil} + 2 \cdot r^2 \pi$
 \downarrow
 $2r \pi$

$r = b_{rett}$ *DATO da trovare*

$V = A_{base} \cdot h_{cil} \quad h_{cil} = h_{rett}$

N° 223

DATI

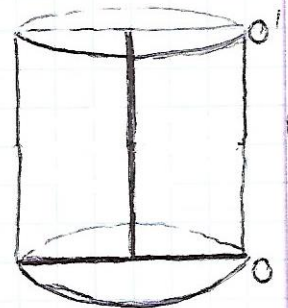
Sviluppo \Rightarrow $h_{cilindro} = 2r_{base}$

$A_{base} = 169 \pi \text{ cm}^2$

Richiesta

$S_{tot} = ? \quad V = ?$

$S_{tot} = S_{lat} + 2 \cdot A_{base}$
 \downarrow
 $2p_{base} \cdot h_{cilindro}$
 \downarrow
 $2r \pi \cdot 2r$



$R = 2r$

DATO DA TROVARE

$V = A_{base} \cdot h_{cilindro}$

Sviluppo

$169 \pi = r^2 \pi$

$\sqrt{169} = 13 \text{ cm} \quad r$

$2p = 2 \cdot r \cdot \pi = 2 \cdot 13 \cdot \pi = 26 \pi \text{ cm}$

$V = 169 \pi \cdot 13 \cdot 2 = 4394 \pi \text{ cm}^3$

$S_{tot} = 26 \pi \cdot 2 \cdot 13 + 2 \cdot 169 \pi = 676 \pi + 338 \pi = 1014 \pi \text{ cm}^2$