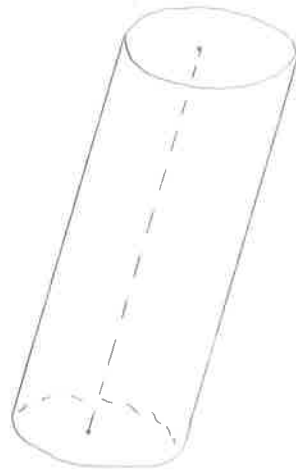
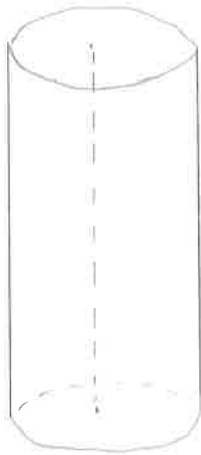


VALJAK

2.E

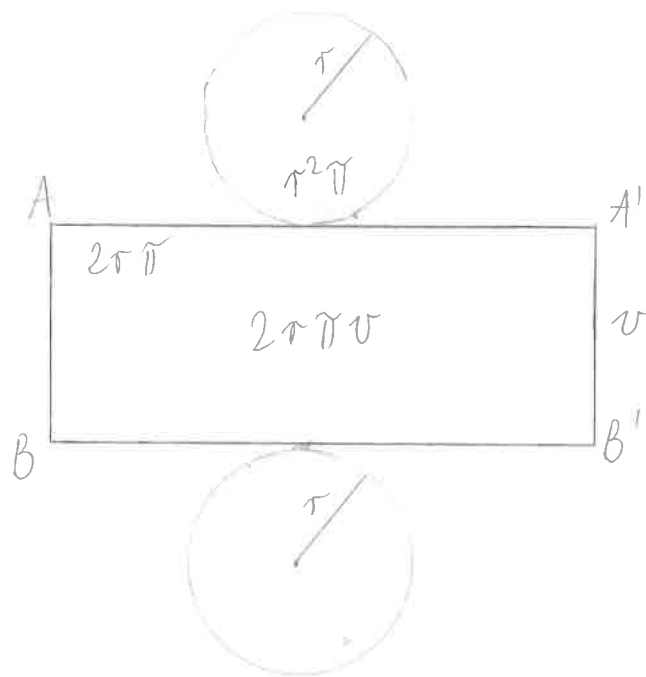
Juroj Feljan, Nikola Čunčić, Tin Libon Kelentrić

Je li valjak uspravan ili kos?



Valjak je uspravan ako mu je osovnica okomita na ravninu baze. Ako to nije slučaj, valjak je kos.

Mjera uspravnog valjka



Mjera valjka sastoji se od dva kruga (osnovke valjka) i pravokutnika.

# Učljak završeci

2.  $R = r + 10$

$O = 144 \pi \text{ cm}^2$

$R$  - VISINA

$r$  - RADIUS BP ZE

$O$  - PLOŠTJE VALJKA

$r = ?$

$R = ?$

$O = 2r\pi(r + R)$

$O = 2r\pi(2r + 10)$

$O = 4r^2\pi + 20r\pi - O$

$O = 4r^2\pi + 20r\pi - 144\pi$

$r_1 = 4$

$R = r + 10 = 14$

~~$r_2 = -2$~~

9.  $\rho = 8500 \text{ kg/m}^3$

$a = 10 \text{ cm}$

$V_k = a^3 = 1000 \text{ cm}^3$



$r = 5 = \frac{a}{2}$

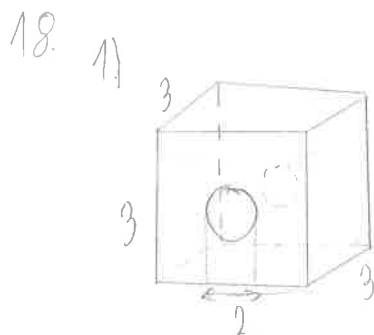
$V = r^2 \pi \cdot a$

$V_v = 250 \pi \text{ cm}^3$

$V_{\text{OD}} = V_k - V_v = 214,6 \text{ cm}^3 = 214,6 \cdot 10^{-6} \text{ m}^3$

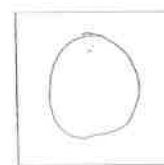
$\rho = \frac{m}{V}$

$m = \rho \cdot V_{\text{OD}} = 1,824 \text{ kg}$



$3 \cdot 4 = 3^2 \cdot 4$

$r = \frac{3}{2} = 1,5$



$3 \cdot 2$

$2(3^2 - r^2 \pi)$



$2r\pi \cdot 3$

$V = V_k - V_v = 3^3 - r^2 \pi \cdot 3 = 175,75$

$O = 3^2 \cdot 4 + 3^2 \cdot 2 - r^2 \pi \cdot 2 + 2r\pi \cdot 3 = 66,56637$