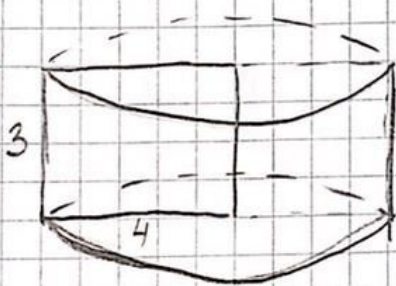


# Ваљак - ВЕНБАЊЕ

674.  $a = 3 \text{ cm}$   $P = ?$   
 $b = 4 \text{ cm}$   $V = ?$

ПРАВОУГОЛНИК ротира око крате СТРАНИЦЕ  
 $\Rightarrow H = 3 \text{ cm}$   
 $r = 4 \text{ cm}$



$$V = B \cdot H$$

$$V = 16\pi \cdot 3$$

$$V = 48\pi \text{ cm}^3$$

$$P = 2B + M$$

$$B = r^2\pi$$

$$B = 4^2 \cdot \pi = 16\pi \text{ cm}^2$$

$$M = 2r\pi \cdot H$$

$$M = 2 \cdot 4 \cdot \pi \cdot 3$$

$$M = 24\pi \text{ cm}^2$$

$$P = 2 \cdot 16\pi \text{ cm}^2 + 24\pi \text{ cm}^2$$

$$P = 32\pi \text{ cm}^2 + 24\pi \text{ cm}^2$$

$$P = 56\pi \text{ cm}^2$$

269. (ЗБИРКА-ПРИЈЕМНИ)

$$H = 3000 \text{ mm} = 30 \text{ dm}$$

$$2r = 1600 \text{ mm} = 16 \text{ dm} \Rightarrow r = 8 \text{ dm}$$

$$V = B \cdot H$$

$$B = 8^2 \cdot \pi = 64\pi \text{ dm}^2$$

$$V = 64\pi \cdot 30 \text{ dm}^3$$

$$V = 1920\pi \text{ dm}^3$$

$$V = 1920 \ell$$

410. (ЗБИРКА - ПРИЈЕМНИ)

$$P = 288 \text{ J cm}^2 \quad V = ?$$

$$2r : H = 8 : 5$$

$$2r = 8k \Rightarrow r = 4k$$

$$H = 5k$$

$$288 \text{ J cm}^2 = 2r^2 \text{ J} + 2r \text{ J} \cdot H$$

$$288 \text{ J cm}^2 = 2 \cdot 16k^2 \cdot \text{J} + 8k \cdot 5k \cdot \text{J}$$

$$288 \text{ J cm}^2 = 32 k^2 \cdot \text{J} + 40 k^2 \cdot \text{J}$$

$$288 \text{ J cm}^2 = 72 k^2 \cdot \text{J}$$

$$k^2 = \frac{288 \text{ J cm}^2}{72 \text{ J}}$$

$$k^2 = 4 \text{ cm}^2$$

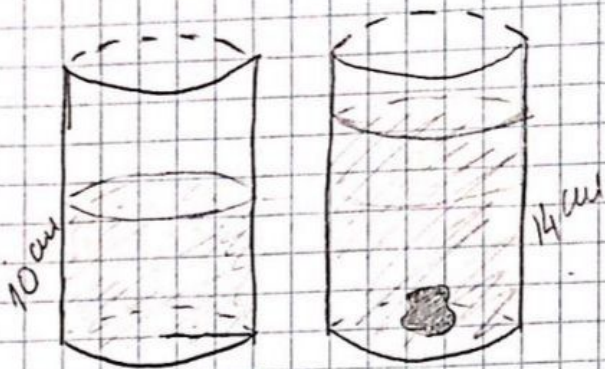
$$k = 2 \text{ cm} \Rightarrow r = 8 \text{ cm} \quad H = 10 \text{ cm}$$

$$V = r^2 \text{ J} \cdot H$$

$$V = 64 \text{ J} \cdot 10$$

$$V = 640 \text{ J cm}^3$$

409. (ЗБИРКА - ПРИЈЕМНИ)



$$H_1 = 10 \text{ cm}$$

$$H_2 = 14 \text{ cm}$$

$$O = 31,4 \text{ cm}$$

$$31,4 = 2r\pi$$

$$31,4 = 2 \cdot r \cdot 3,14$$

$$2 \cdot r = \frac{31,4}{3,14}$$

$$2 \cdot r = 10$$

$$r = 5$$

$$B = 5^2 \cdot \pi$$

$$B = 25 \cdot \pi$$

$$V_K = (H_2 - H_1) \cdot B$$

$$\rightarrow V_K \approx (14 - 10) \cdot 25 \cdot 3,14$$

$$V_K \approx 4 \cdot 25 \cdot 3,14$$

$$V_K \approx 314 \text{ cm}^3$$