

## ЗБИРКА ЗА ПРИЈЕМНИ

269.

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



$$r = \frac{R}{2} = \frac{800 \text{ mm}}{2} = 800 \text{ cm} = 8 \text{ dm}$$

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

$$V = B \cdot H$$

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

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

$$V = 64 \cdot 30 = 1920 \pi \text{ dm}^3 = \boxed{1920 \pi \text{ l}}$$

408.

$$H_1 = 10 \text{ cm} \quad \pi = 3,14$$

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

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

$$O = 2r\pi = 2r \cdot 3,14 \Rightarrow 2r = \frac{31,4}{3,14} = 10 \Rightarrow r = 5 \text{ cm}$$

$$V_{\text{KOM.}} = V_2 - V_1$$

$$V_1 = B H_1 = r^2 \pi \cdot 10 \text{ cm} = 25 \pi \cdot 10 \text{ cm}^3 = 250 \pi \text{ cm}^3 = 250 \cdot 3,14 = 785 \text{ cm}^3 \quad (1)$$

$$V_2 = 25 \cdot 14 \cdot 3,14 \text{ cm}^3 = 1099 \text{ cm}^3 \quad (2)$$

$$(1) \quad (2) \Rightarrow \boxed{V_{\text{KOM.}} = 314 \text{ cm}^3}$$

110.

$$P = 288 \pi \text{ cm}^2$$

$$R : H = 8 : 5 = k$$

$$R = 8k$$

$$r = \frac{R}{2} = 4k$$

$$H = 5k$$

$$P = 2B + H = 2(r^2 \pi) + 2r \pi H =$$

$$2r \pi (r + H) = 8k \pi \cdot (4k + 5k) =$$

$$288 \pi = 72k^2 \pi = 8k \pi \cdot 9k = 72k^2 \pi$$

$$4 = k^2 \quad k = 2$$

$$\frac{R = 8 \text{ cm}}{H = 10 \text{ cm}}$$

$$\rightarrow V = B H = r^2 \pi \text{ cm}^2 = \boxed{640 \pi \text{ cm}^3}$$