

$$a) \quad d = 2 \cdot r = 2 \cdot 5,6 \text{ cm} = 11,2 \text{ cm}$$

$$A_G = r^2 \pi = 5,6^2 \pi \text{ cm}^2 = 98,5 \text{ cm}^2$$

$$M = 2r\pi \cdot h = 2 \cdot 5,6 \text{ cm} \pi \cdot 8,2 \text{ cm} = 288,52 \text{ cm}^2$$

$$V = A_G \cdot h = 98,5 \text{ cm}^2 \cdot 8,2 \text{ cm} = \underline{807,7 \text{ cm}^3}$$

$$O = 2 \cdot A_G + M = 2 \cdot 98,5 \text{ cm}^2 + 288,52 \text{ cm}^2 \\ = \underline{485,52 \text{ cm}^2}$$

$$b) \quad r = 0,5 \cdot d = 0,5 \cdot 3,7 \text{ cm} = 1,85 \text{ cm}$$

$$A_G = r^2 \pi = (1,85 \text{ cm})^2 \pi = 10,75 \text{ cm}^2$$

$$M = 2r\pi \cdot h = 2 \cdot 1,85 \text{ cm} \pi \cdot 4,8 \text{ cm} = 55,79 \text{ cm}^2$$

$$V = A_G \cdot h = 10,75 \text{ cm}^2 \cdot 4,8 \text{ cm} = \underline{51,6 \text{ cm}^3}$$

$$O = 2 \cdot A_G + M = 2 \cdot 10,75 \text{ cm}^2 + 55,79 \text{ cm}^2 = \underline{77,29 \text{ cm}^2}$$

$$d) \quad d = 2 \cdot r = 2 \cdot 12 \text{ cm} = 24 \text{ cm}$$

$$A_G = r^2 \pi = 12^2 \pi \text{ cm}^2 = 452,39 \text{ cm}^2$$

$$h = \frac{V}{A_G} = \frac{1094,4 \pi \text{ cm}^3}{452,39 \text{ cm}^2} = 7,60 \text{ cm}$$

$$M = 2r\pi \cdot h = 2 \cdot 12 \text{ cm} \pi \cdot 7,6 \text{ cm} = 573,03 \text{ cm}^2$$

$$O = 2 \cdot A_G + M = 2 \cdot 452,39 \text{ cm}^2 + 573,03 \text{ cm}^2 \\ = \underline{1477,81 \text{ cm}^2}$$