

①

① O_{HK}

$$O = \pi \cdot 6^2 + 2\pi \cdot 6^2$$

$$\underline{O_{HK} = 339,29 \text{ cm}^2}$$

② a

$$O = 6 \cdot a^2$$

$$339,29 = 6 \cdot a^2$$

$$a = \sqrt{\frac{339,29}{6}}$$

$$\underline{a = 7,52 \text{ cm}}$$

②

① d

$$d = \sqrt{10^2 + 10^2}$$

$$\underline{d = 14,14 \text{ cm}}$$

② G

$$G = 0,5 \cdot 10 \cdot 10$$

$$\underline{G = 50 \text{ cm}^2}$$

③ M

$$O = 2 \cdot G + M$$

$$509,68 = 2 \cdot 50 + M$$

$$\underline{M = 409,68 \text{ cm}^2}$$

④ h

$$M = u \cdot h$$

$$409,68 = (10 + 10 + 14,14) \cdot h$$

$$\underline{h = \frac{409,68}{10 + 10 + 14,14} = 12 \text{ cm}}$$

⑤ V

$$V = G \cdot h$$

$$= 50 \cdot 12$$

$$\underline{V = 600 \text{ cm}^3}$$