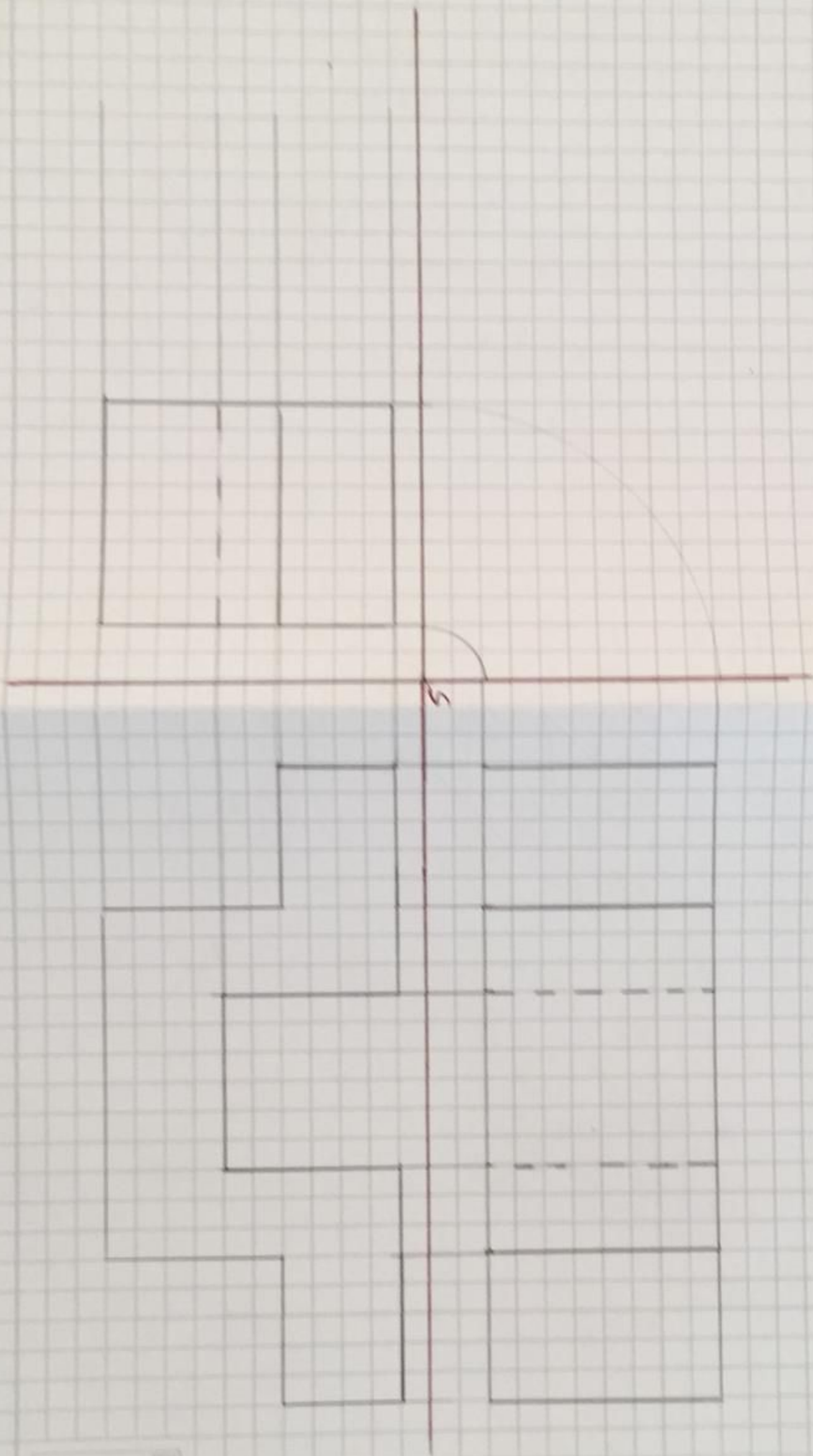


8

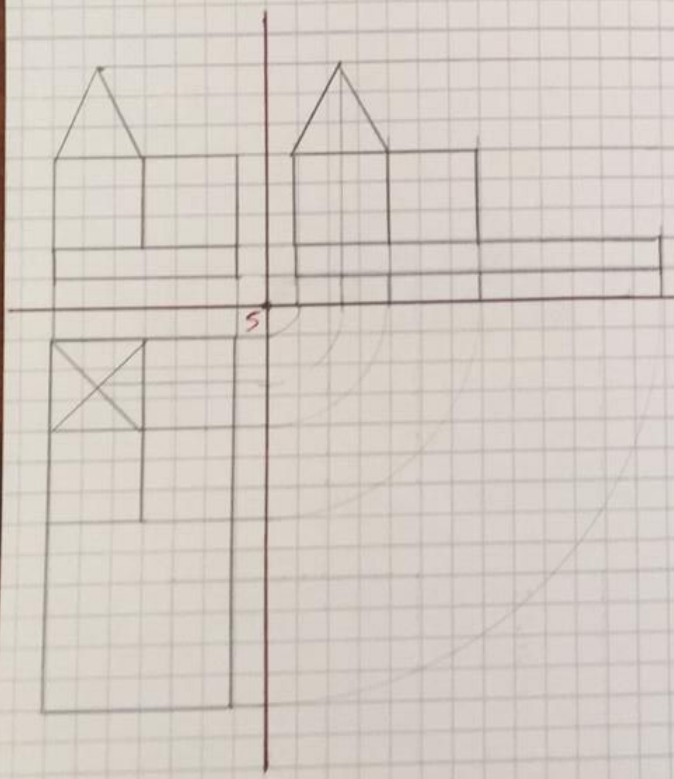
A

5.82/3a



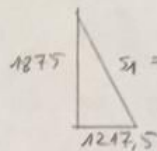
BRUNNEN

b)



c)

8.



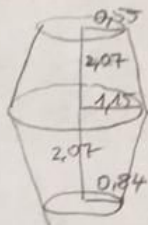
$$S_1 = 2235,6$$

$$A_1 = \pi \cdot 1,5 = 8550,942 \text{ mm}^2$$

$$A_2 = 12241,979 \text{ mm}^2$$

$$A = 207929,21 \text{ mm}^2 = \underline{20,8 \text{ m}^2}$$

9.

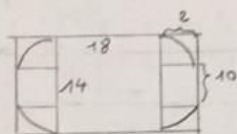


$$V = \frac{1}{3} \pi \cdot 2,07 \cdot (0,55^2 + 0,55 \cdot 1,15 + 1,15^2)$$

$$+ \frac{1}{3} \pi \cdot 2,07 \cdot (1,15^2 + 1,15 \cdot 0,84 + 0,84^2)$$

$$V = \underline{11,38 \text{ m}^3}$$

10.



$$A = 14 \cdot 18 + \pi \cdot 2^2 + 2 \cdot 10 \cdot 2 = 304,57 \text{ cm}^2$$

$$V = 304,566 \text{ cm}^3$$

$$\text{fläch: } 852,8 \text{ g}$$

$$\text{Material: } 822,3 \text{ g}$$

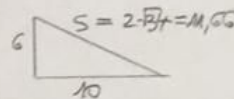
11.

$$\left. \begin{aligned} V_{\text{Prisma}} &= 0,9^2 \cdot 1,2 = 0,972 \\ V_{\text{Pyr.}} &= \frac{1}{3} \cdot 0,9^2 \cdot 1,5 = 0,405 \end{aligned} \right\} 1,377 \text{ m}^3 = 1377000 \text{ cm}^3 = \underline{3580,2 \text{ kg}}$$

12.

$$a) A_0 = \underbrace{2 \cdot 15 \cdot 2}_{\text{rosa}} + \underbrace{\pi \cdot 20 \cdot 2}_{\text{Kegel}} + \underbrace{2 \cdot 15 \cdot 2\sqrt{34}}_{\text{Kegel}} + \underbrace{\pi \cdot 10 \cdot 2\sqrt{34}}_{\text{Kegel}}$$

$$= \underline{839,06 \text{ m}^2}$$

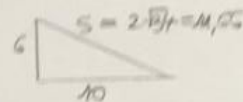


$$b) \left. \begin{aligned} V_{\text{rosa}} &= 20 \cdot 15 \cdot 2 + \pi \cdot 10^2 \cdot 2 = 1228,32 \\ V_{\text{Kegel}} &= \frac{1}{3} \pi \cdot 10^2 \cdot 6 = 200\pi \\ V_{\text{Prisma}} &= \frac{1}{2} \cdot 20 \cdot 6 \cdot 15 = 900 \end{aligned} \right\} \underline{2756,64 \text{ m}^3}$$



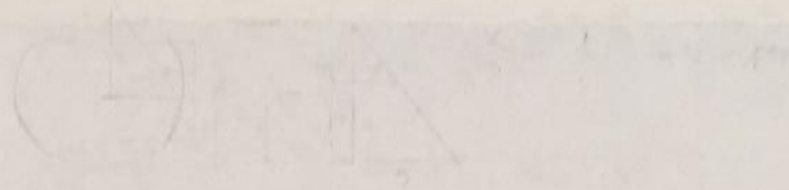
$$V_{\text{Kugel}} = \frac{1}{3} \cdot 99^2 \cdot 15 = 0,405$$

$$\begin{aligned} 12. \quad a) \quad A_0 &= \underbrace{2 \cdot 15 \cdot 2}_{\text{rosa}} + \underbrace{\pi \cdot 20 \cdot 2}_{\text{Kugel}} + \underbrace{2 \cdot 15 \cdot 2\sqrt{34}}_{\text{Hügel}} + \underbrace{\pi \cdot 10 \cdot 2\sqrt{34}}_{\text{Hügel}} \\ &= \underline{839,06 \text{ m}^2} \end{aligned}$$



$$\begin{aligned} b) \quad V_{\text{rosa}} &= 20 \cdot 15 \cdot 2 + \pi \cdot 10^2 \cdot 2 = 1228,32 \\ V_{\text{Kugel}} &= \frac{4}{3} \pi \cdot 10^3 \cdot 6 = 200\pi \\ V_{\text{Prisma}} &= \frac{1}{2} \cdot 20 \cdot 6 \cdot 15 = 900 \end{aligned} \quad \left. \vphantom{\begin{aligned} V_{\text{rosa}} \\ V_{\text{Kugel}} \\ V_{\text{Prisma}} \end{aligned}} \right\} \underline{2756,64 \text{ m}^3}$$

13.



zu 10.)

Grundfläche:

