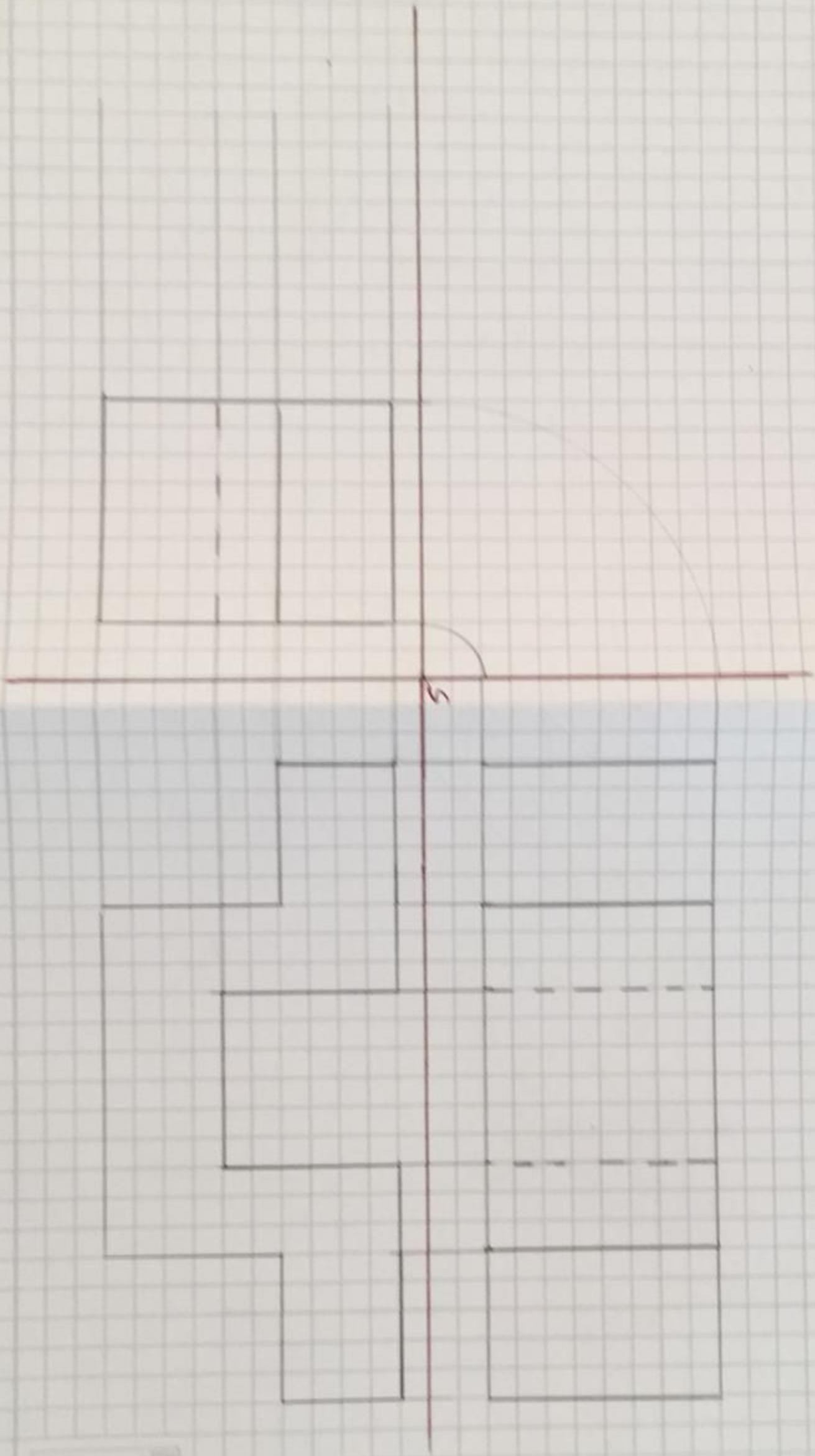
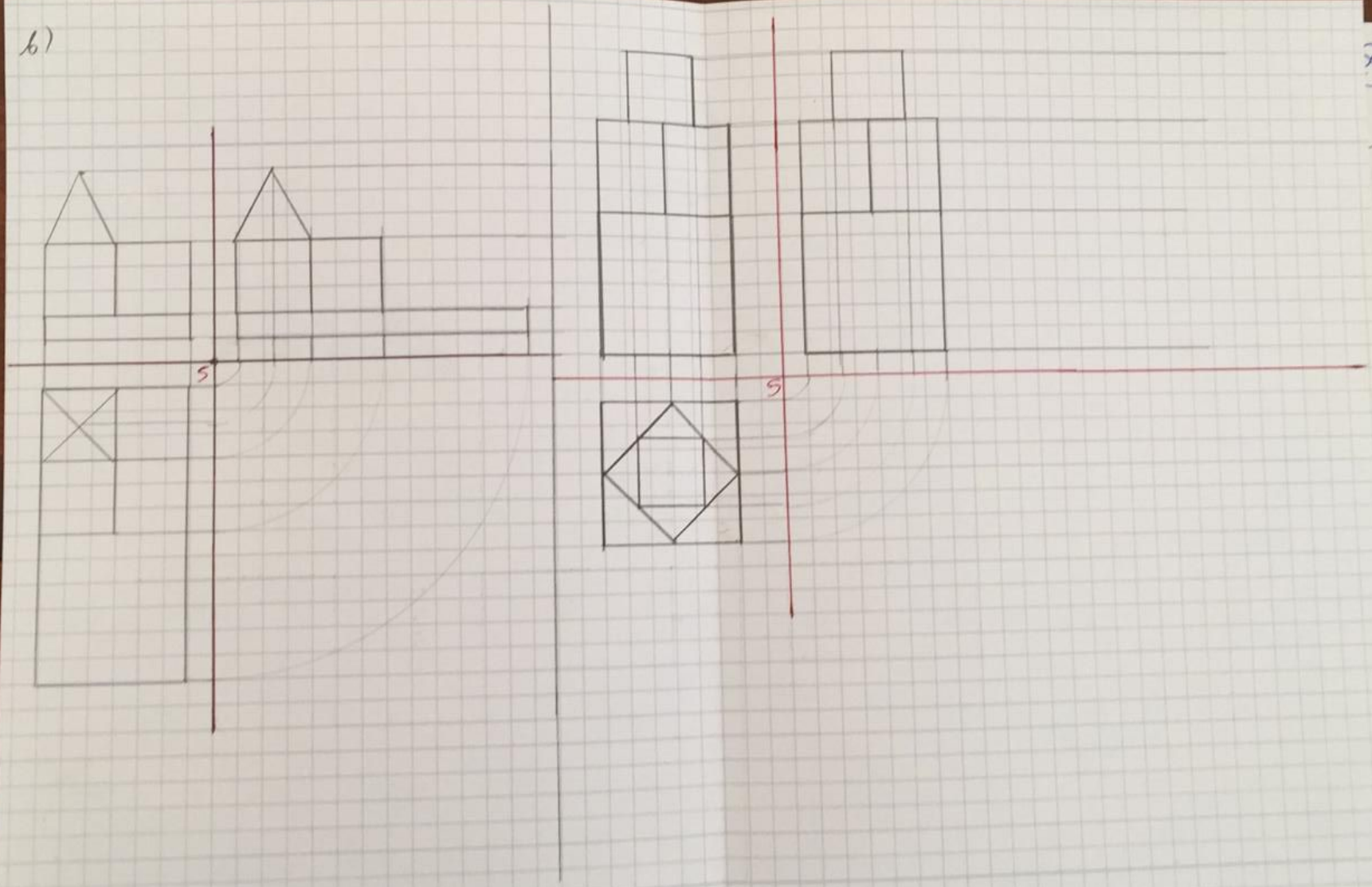
8.

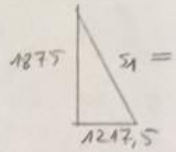
§ 82/3a



b)



8.



$A_1 = \pi \cdot t \cdot s = 8550,942\ mm^2$ $\quad s_2 = 3200,6$

$A = 20792921\ mm^2$ $\quad A_2 = 12241979\ mm^2$

$= \underline{20,8\ m^2}$

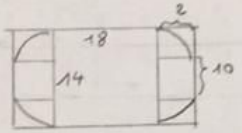
9.

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

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

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

10.



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

$V = 304,566\ cm^3$

$\underline{\text{Jarn: } 852,8\ g}$ $\quad \underline{\text{Mässing: } 822,3\ g}$

11.

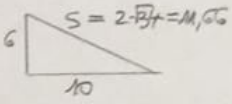
$V_{Prisma} = 0,9^2 \cdot 1,2 = 0,972$

$V_{Pyr.} = \frac{1}{3} \cdot 0,9^2 \cdot 1,5 = 0,405$

$1,377\ m^3 = 1377000\ cm^3 = \underline{3580,2\ kg}$

12.

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



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

b) $V_{rosa} = 20 \cdot 15 \cdot 2 + \pi \cdot 10^2 \cdot 2 = 1228,32$

$V_{kägel} = \frac{1}{3}\pi \cdot 10^2 \cdot 6 = 200\pi$

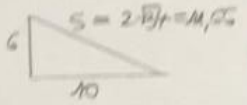
$V_{Prisma} = \frac{1}{2} \cdot 20 \cdot 6 \cdot 15 = 900$

$\underline{2756,64\ m^3}$

$V_{Zyl.} = \frac{1}{3} \cdot 0,9^2 \cdot 1,5 = 0,405$ }

(12.) a) $A_O = \underbrace{2 \cdot 15 \cdot 2 + \pi \cdot 20 \cdot 2}_{\text{rosa}} + \underbrace{2 \cdot 15 \cdot 2\sqrt{34}}_{\text{Rechteck}} + \underbrace{\pi \cdot 10 \cdot 2\sqrt{34}}_{\text{Mantel}}$

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



b) $V_{rosa} = 20 \cdot 15 \cdot 2 + \pi \cdot 10^2 \cdot 2 = 1228,32$

$V_{Kegel} = \frac{1}{3} \pi \cdot 10^2 \cdot 6 = 200\pi$

$V_{Prisma} = \frac{1}{2} \cdot 20 \cdot 6 \cdot 15 = 900$

} $\underline{2756,64\ m^3}$

zu 10.)

Grundfläche: