

$$(1) \quad A = 3316.625 \text{ cm}^2$$

$$\text{Abfall} = 908.375 \text{ cm}^2$$

$$\text{Abfall}[\%] = 1 - \frac{\pi}{4} = 0.215 = 21.5\%$$

$$(2) \text{ a) } A_{\text{Sportplatz}} = 13824 \text{ m}^2$$

$$\text{b) } P_{\text{Aschenbahn}} = 147'012 \text{ CHF}$$

$$(3) \quad \text{Verlust} = 74.3 \text{ g}$$

$$(4) \quad \text{beide } 21.5\%$$

$$\text{Abfall} = 1 - \frac{\pi}{4} = 0.215 = 21.5\%$$

$$(5) \quad A_{\text{links}} = a^2 \left(\frac{\pi}{2} - 1 \right) = 14.25 \text{ cm}^2$$

$$D_{\text{links}} = 2a \left(1 - \frac{1}{\sqrt{2}} \right) = 2.925 \text{ cm}$$

$$A_{\text{rechts}} = \frac{a^2}{2} \left(\frac{\pi}{2} - 1 \right) = 7.125 \text{ cm}^2$$

$$D_{\text{rechts}} = \frac{a}{2} (\sqrt{2} - 1) = 2.07 \text{ cm}$$