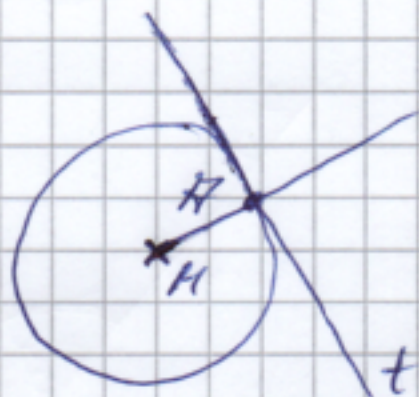
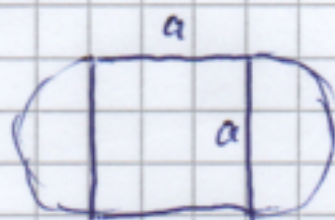


Ha 10 3. Woche Werklaufrage Planimetrie

2.1. Skizze:



2.2.



$$u = 2 \cdot a + u_{\text{Kreis}}$$

$$u = 2 \cdot a + \pi \cdot a$$

$$= a \cdot (2 + \pi)$$

$$a = \frac{d}{\text{Kreis}}$$

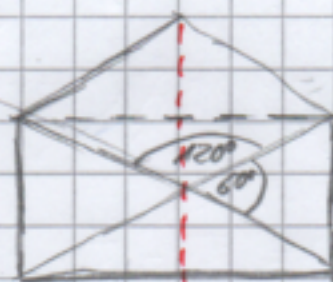
$$u = \pi \cdot d / a$$

2.3

$$H = \pi \cdot r^2$$

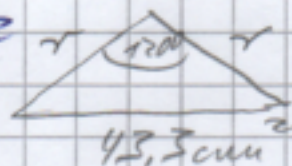
$$(\text{Kreis}) = \pi \cdot (10 \text{ cm})^2$$

$$= \underline{\underline{314,2 \text{ cm}^2}}$$



$$43,5 \text{ cm}^2$$

$$\underline{\underline{H = 216,7 \text{ cm}^2}}$$



$$\text{Rest: } 97,5 \text{ cm}^2$$

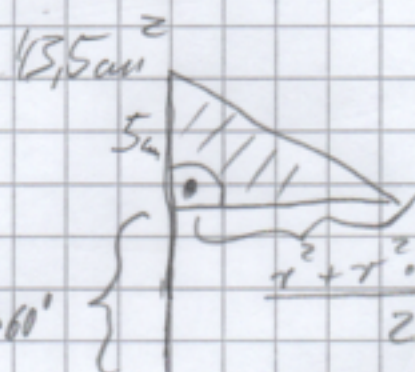
$$314,2 \quad 100\%$$

$$97,5 \quad x$$

$$\underline{\underline{x = 31\%}}$$

$$r^2 + r^2 = 200 \cdot \cos 60^\circ$$

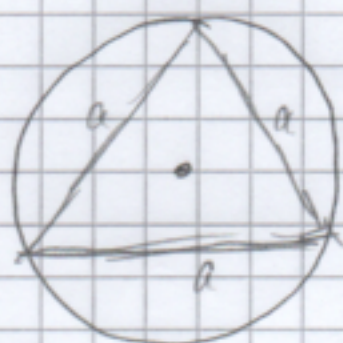
$$= 5 \text{ cm}$$



$$\frac{100 + 100 - 200 \cdot \cos 120^\circ}{2}$$

$$= \underline{\underline{127,5 \text{ cm}^2}}$$

2.4.1



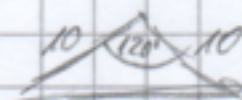
$$d = 20 \text{ cm}$$

2.4.1

$$H_{\text{Kreis}} = \pi r^2 = 314,2 \text{ cm}^2$$

$$H_{\Delta} = 130 \text{ cm}^2$$

$$\text{Rest: } \underline{\underline{184,2 \text{ cm}^2}}$$



$$H = \frac{1}{2} \cdot 10 \cdot 10 \cdot \sin 120^\circ$$

$$43,3 \text{ cm}$$

$$\downarrow \cdot 3$$

$$\underline{\underline{130 \text{ cm}^2}}$$