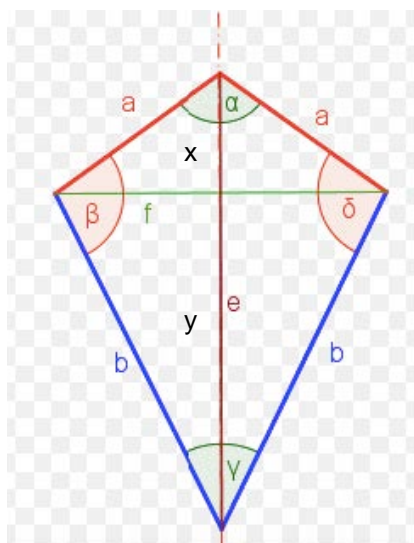


Lösung Beispiel 705.) a.)



$$a = 28,6 \text{ cm} \quad x = 26,4 \text{ cm} \quad y = 60 \text{ cm}$$

$$\frac{f}{2} = \sqrt{a^2 - x^2} \rightarrow \frac{f}{2} = 11 \text{ cm} \rightarrow f = 2 \cdot 11 = 22 \text{ cm}$$

$$b = \sqrt{\left(\frac{f}{2}\right)^2 + y^2} \rightarrow b = 61 \text{ cm}$$

$$u = 2 \cdot (a + b) \rightarrow u = 179,2 \text{ cm}$$

$$e = x + y \rightarrow e = 86,4 \text{ cm}$$

$$A = \frac{e \cdot f}{2} \rightarrow A = 950,4 \text{ cm}^2$$

$$\cos\left(\frac{\alpha}{2}\right) = \frac{x}{a} \rightarrow \frac{\alpha}{2} = \cos^{-1}\left(\frac{26,4}{28,6}\right) \approx 22,62^\circ \rightarrow \alpha \approx 45,24^\circ$$

$$\cos\left(\frac{\gamma}{2}\right) = \frac{y}{b} \rightarrow \frac{\gamma}{2} = \cos^{-1}\left(\frac{60}{61}\right) \approx 10,39^\circ \rightarrow \gamma \approx 20,78^\circ$$

$$\beta = \delta = \frac{360^\circ - \alpha - \gamma}{2} \rightarrow \beta = \delta \approx 146,99^\circ$$

