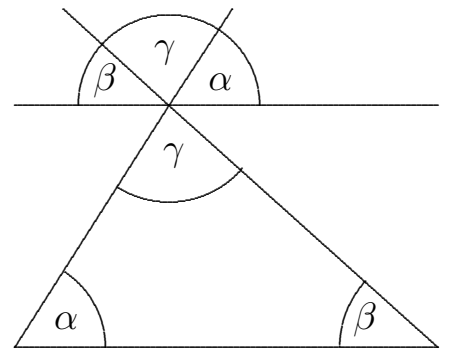
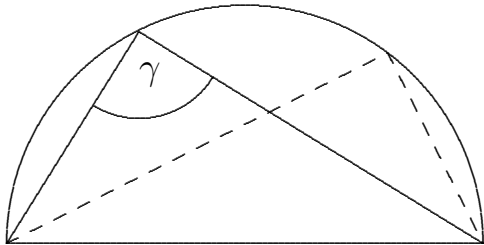


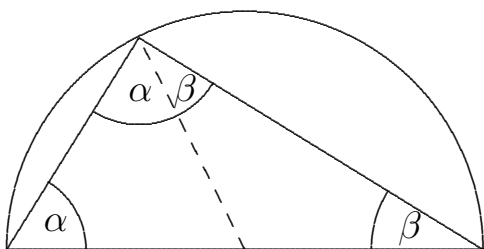
Geometrie Grundwissen

$$\alpha + \beta + \gamma = 180^\circ$$

Die Winkelsumme im Dreieck beträgt 180° .



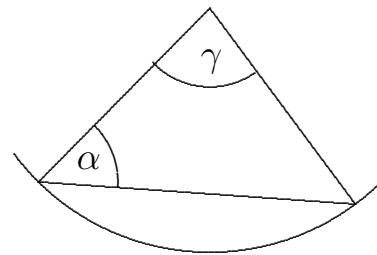
Der Satz des Thales: $\gamma = 90^\circ$
 Jeder Winkel im Halbkreis ist ein rechter.



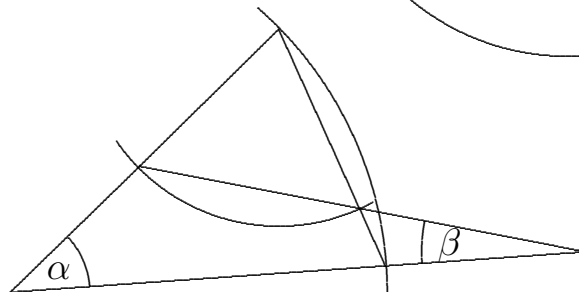
Beweis:

$$\begin{aligned} \alpha + \beta + \beta + \alpha &= 180^\circ \\ 2\alpha + 2\beta &= 180^\circ \quad | :2 \\ \alpha + \beta &= 90^\circ \end{aligned}$$

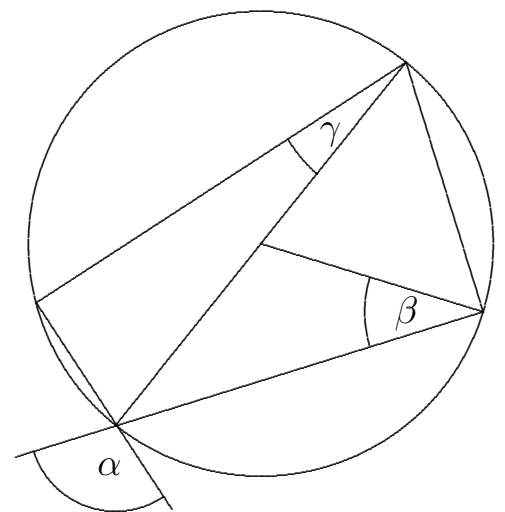
- Bestimme den Winkel γ .
 $\alpha = 48^\circ$



- Bestimme den Winkel β .
 $\alpha = 40^\circ$



- Bestimme den Winkel γ .
 $\alpha = 110^\circ$
 $\beta = 35^\circ$



Geometrie Grundwissen Lösungen

1. $\gamma = 84^\circ$

2. $\beta = 15^\circ$

3. $\gamma = 15^\circ$