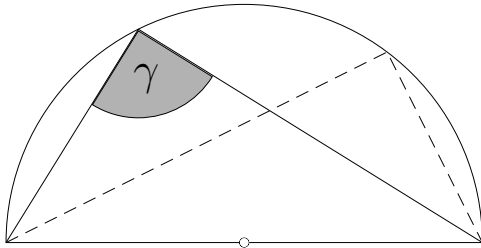
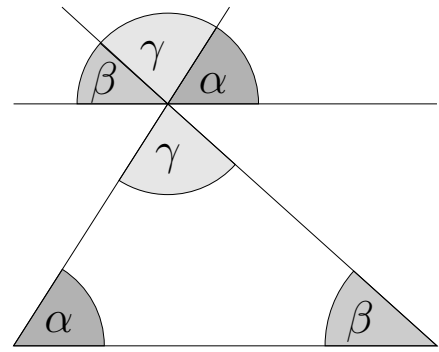


# Geometrie Grundwissen

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

Die Winkelsumme im Dreieck beträgt  $180^\circ$ .



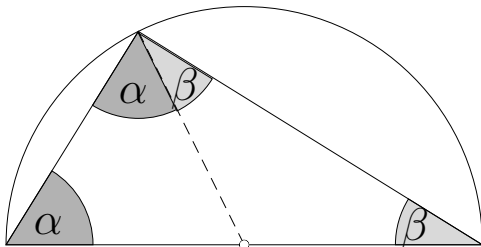
Der Satz des Thales:  $\gamma = 90^\circ$   
 Jeder Winkel im Halbkreis ist ein rechter.

Beweis:

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

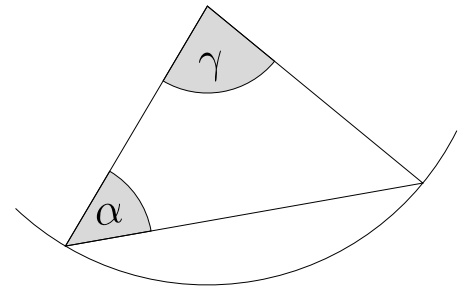
$$2\alpha + 2\beta = 180^\circ \quad | :2$$

$$\alpha + \beta = 90^\circ$$



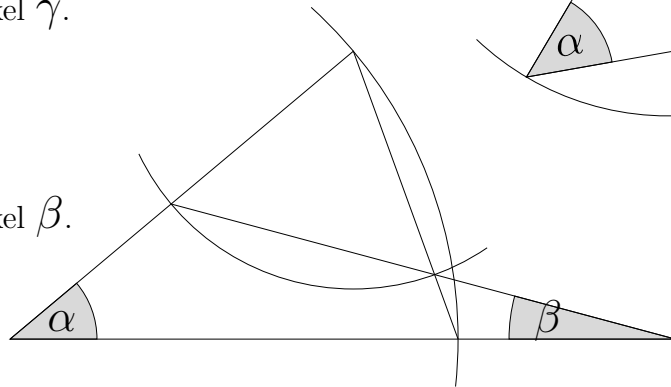
1. Bestimme den Winkel  $\gamma$ .

$$\alpha = 48^\circ$$



2. Bestimme den Winkel  $\beta$ .

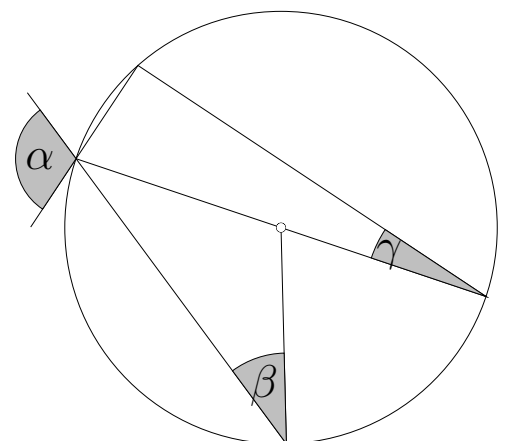
$$\alpha = 40^\circ$$



3. Bestimme den Winkel  $\gamma$ .

$$\alpha = 110^\circ$$

$$\beta = 35^\circ$$



## Geometrie Grundwissen Ergebnisse

1.  $\gamma = 84^\circ$

2.  $\beta = 15^\circ$

3.  $\gamma = 15^\circ$