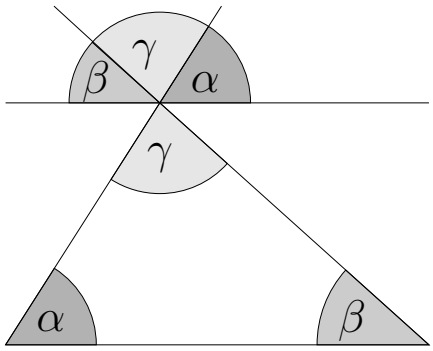
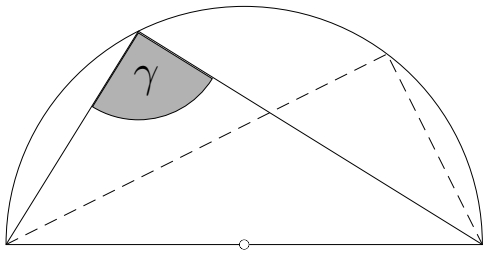
Geometrie Grundwissen



$\alpha + \beta + \gamma = 180°$

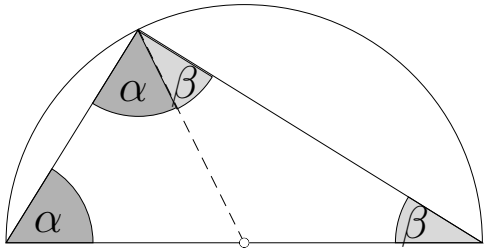
Die Winkelsumme im Dreieck beträgt 180°.

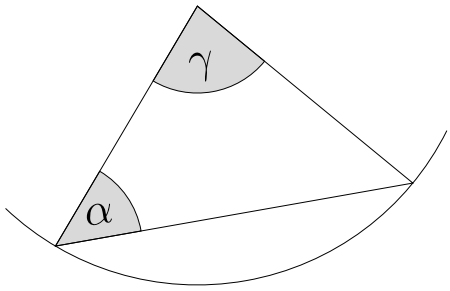


Der Satz des Thales: $\gamma = 90°$
Jeder Winkel im Halbkreis ist ein rechter.

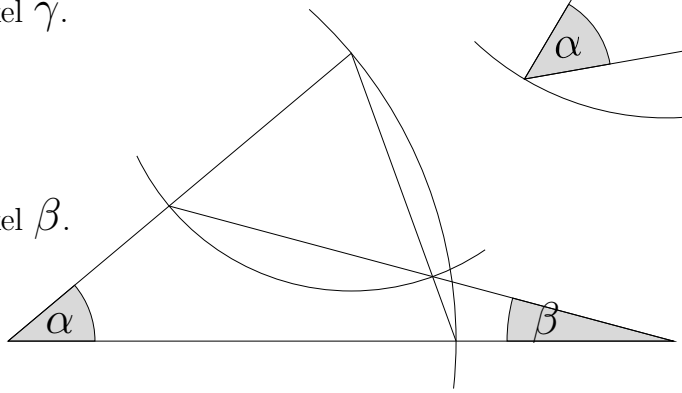
Beweis:

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



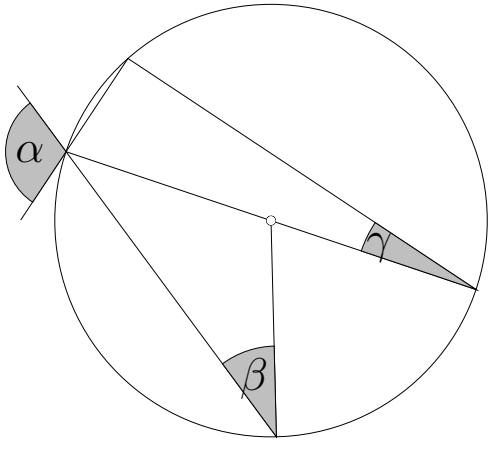


1. Bestimme den Winkel γ.
   $\alpha = 48°$



2. Bestimme den Winkel β.
   $\alpha = 40°$

3. Bestimme den Winkel γ.
   $\alpha = 110°$
   $\beta = 35°$



Geometrie Grundwissen Ergebnisse

1. $\gamma = 84°$

2. $\beta = 15°$

3. $\gamma = 15°$