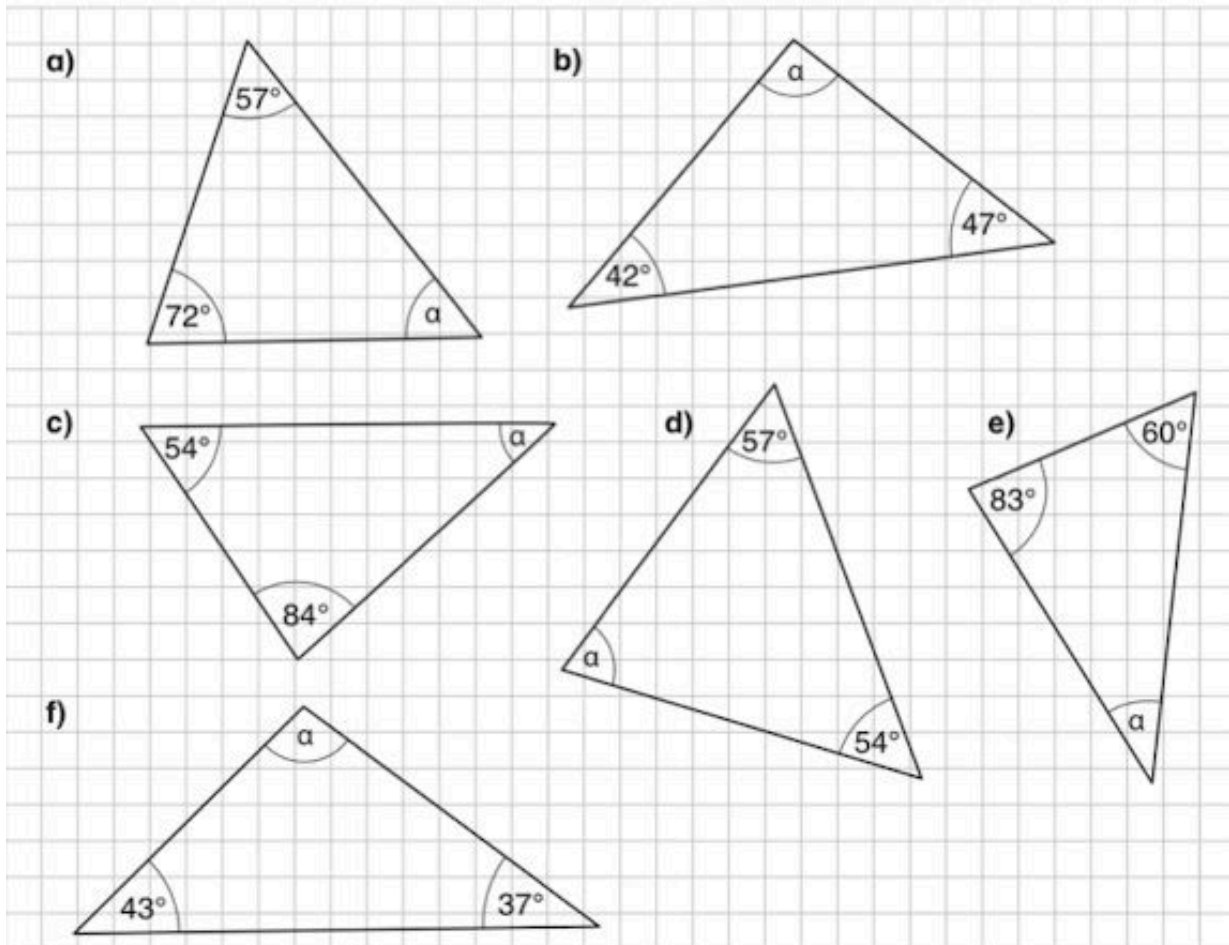


ÜB: Innenwinkelsumme im Dreieck

Mathematik Raum und Form M 7

① Berechne die fehlenden Winkelgrößen.



Empty grid area for student work.

Tipp: Die Winkelsumme im Dreieck beträgt 180° .

Beispiel: $\alpha = 90^\circ$ $\beta = 20^\circ$ $\gamma = ?$
 $180^\circ - 90^\circ - 20^\circ = \underline{70^\circ}$





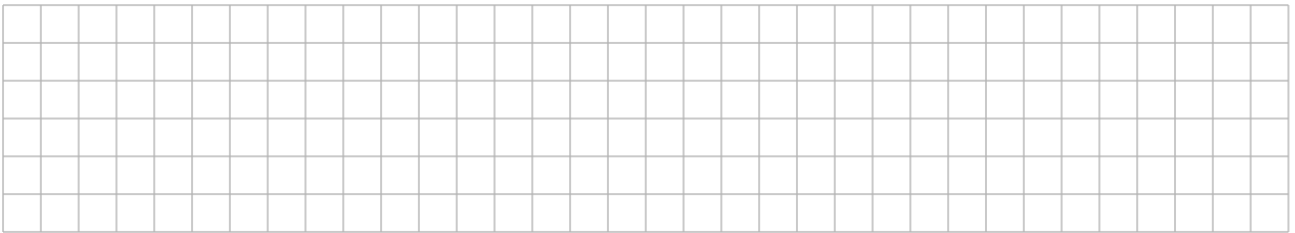
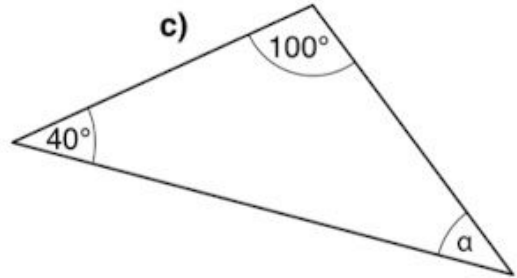
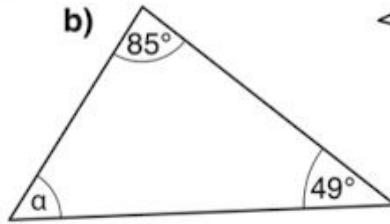
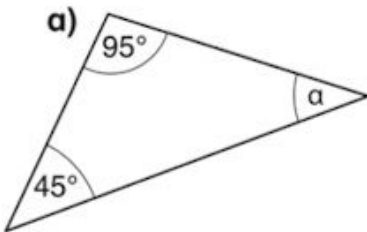
ÜB: Innenwinkelsumme im Dreieck

Mathematik Raum und Form M 7

Tipp: Die Winkelsumme im Dreieck beträgt 180° .

Beispiel: $\alpha = 90^\circ$ $\beta = 20^\circ$ $\gamma = ?$
 $180^\circ - 90^\circ - 20^\circ = \underline{70^\circ}$

② Berechne die fehlenden Winkelgrößen.



③ Berechne jeweils die fehlende Winkelgröße.

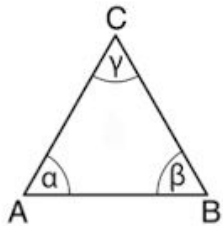
a) $\alpha = 80^\circ$; $\gamma = 60^\circ$ _____

c) $\alpha = 90^\circ$; $\beta = 70^\circ$ _____

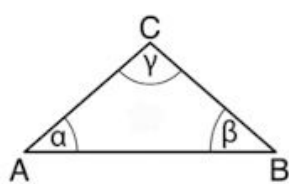
b) $\beta = 30^\circ$; $\gamma = 50^\circ$ _____

d) $\alpha = 100^\circ$; $\gamma = 35^\circ$ _____

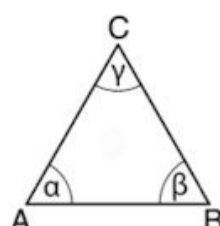
④ Überlege dir eigene Beispiele für die Winkel, sodass immer eine Innenwinkelsumme von 180° herauskommt.



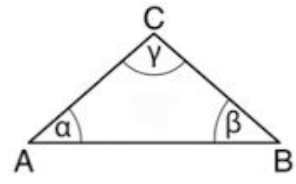
$\alpha =$ _____
 $\beta =$ _____
 $\gamma =$ _____



$\alpha =$ _____
 $\beta =$ _____
 $\gamma =$ _____

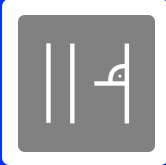


$\alpha =$ _____
 $\beta =$ _____
 $\gamma =$ _____



$\alpha =$ _____
 $\beta =$ _____
 $\gamma =$ _____





ÜB: Innenwinkelsumme im Dreieck

Mathematik Raum und Form M 7

⑤ Berechne die Größe des fehlenden Winkels im Dreieck.

① $\gamma = 45^\circ$ $\beta = 70^\circ$ $\alpha =$ _____

② $\gamma = 56^\circ$ $\beta = 100^\circ$ $\alpha =$ _____

③ $\alpha = 80^\circ$ $\beta = 60^\circ$ $\gamma =$ _____

④ $\alpha = 110^\circ$ $\gamma = 45^\circ$ $\beta =$ _____

⑤ $\beta = 43^\circ$ $\alpha = 97^\circ$ $\gamma =$ _____

⑥ $\beta = 22^\circ$ $\gamma = 76^\circ$ $\alpha =$ _____

⑦ $\alpha = 68^\circ$ $\beta = 102^\circ$ $\gamma =$ _____

⑧ $\gamma = 38^\circ$ $\alpha = 102^\circ$ $\beta =$ _____

E 40°

C 82°

D 65°

K 10°

E 40°

R 24°

I 25°

E 40°

Lösungswort:

①	②	③	④	⑤	⑥	⑦	⑧

Tipp: Die Winkelsumme im Dreieck beträgt 180°.

Beispiel: $\alpha = 90^\circ$ $\beta = 20^\circ$ $\gamma = ?$
 $180^\circ - 90^\circ - 20^\circ = 70^\circ$

