

Winkel berechnen

Stufe 2: Winkelsumme im Dreieck

Name: _____

Datum: _____

Nebenwinkel ergänzen sich zu 180° , Scheitelwinkel sind gleich groß. Im Dreieck ist die Winkelsumme 180° , im Viereck 360° . Im gleichschenkligen Dreieck sind die Basiswinkel Alpha und Beta gleich groß, Gamma ist der Winkel an der Spitze.

1) $\alpha = 100^\circ$, $\beta = 50^\circ$: $\gamma =$ _____

2) $\alpha = 21^\circ$, $\beta = 109^\circ$: $\gamma =$ _____

3) $\alpha = 26^\circ$, $\beta = 133^\circ$: $\gamma =$ _____

4) $\alpha = 100^\circ$, $\beta = 16^\circ$: $\gamma =$ _____

5) $\alpha = 45^\circ$, $\beta = 50^\circ$: $\gamma =$ _____

6) $\alpha = 79^\circ$, $\beta = 64^\circ$: $\gamma =$ _____

7) $\alpha = 90^\circ$, $\beta = 26^\circ$: $\gamma =$ _____

8) $\alpha = 100^\circ$, $\beta = 45^\circ$: $\gamma =$ _____

9) $\alpha = 61^\circ$, $\beta = 30^\circ$: $\gamma =$ _____

10) $\alpha = 91^\circ$, $\beta = 27^\circ$: $\gamma =$ _____

11) $\alpha = 104^\circ$, $\beta = 51^\circ$: $\gamma =$ _____

12) $\alpha = 82^\circ$, $\beta = 54^\circ$: $\gamma =$ _____

13) $\alpha = 43^\circ$, $\beta = 19^\circ$: $\gamma =$ _____

14) $\alpha = 25^\circ$, $\beta = 74^\circ$: $\gamma =$ _____

Lösungen: Winkel berechnen

Stufe 2: Winkelsumme im Dreieck

- 1) $\alpha = 100^\circ$, $\beta = 50^\circ$: $\gamma = 30^\circ$
- 2) $\alpha = 21^\circ$, $\beta = 109^\circ$: $\gamma = 50^\circ$
- 3) $\alpha = 26^\circ$, $\beta = 133^\circ$: $\gamma = 21^\circ$
- 4) $\alpha = 100^\circ$, $\beta = 16^\circ$: $\gamma = 64^\circ$
- 5) $\alpha = 45^\circ$, $\beta = 50^\circ$: $\gamma = 85^\circ$
- 6) $\alpha = 79^\circ$, $\beta = 64^\circ$: $\gamma = 37^\circ$
- 7) $\alpha = 90^\circ$, $\beta = 26^\circ$: $\gamma = 64^\circ$
- 8) $\alpha = 100^\circ$, $\beta = 45^\circ$: $\gamma = 35^\circ$
- 9) $\alpha = 61^\circ$, $\beta = 30^\circ$: $\gamma = 89^\circ$
- 10) $\alpha = 91^\circ$, $\beta = 27^\circ$: $\gamma = 62^\circ$
- 11) $\alpha = 104^\circ$, $\beta = 51^\circ$: $\gamma = 25^\circ$
- 12) $\alpha = 82^\circ$, $\beta = 54^\circ$: $\gamma = 44^\circ$
- 13) $\alpha = 43^\circ$, $\beta = 19^\circ$: $\gamma = 118^\circ$
- 14) $\alpha = 25^\circ$, $\beta = 74^\circ$: $\gamma = 81^\circ$