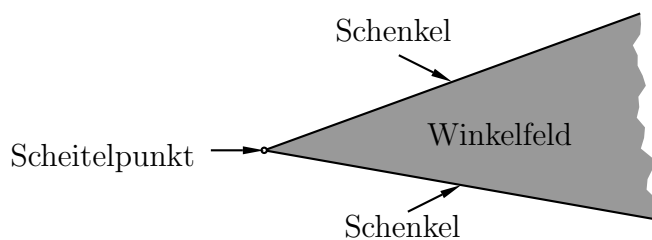


1.



2. (a)  $\delta$  delta

(d)  $\varphi$  phi

(b)  $\varepsilon$  epsilon

(e)  $\xi$  xi

(c)  $\mu$  mü

(f)  $\omega$  omega

3. (a)  $135^\circ$  stumpfer Winkel

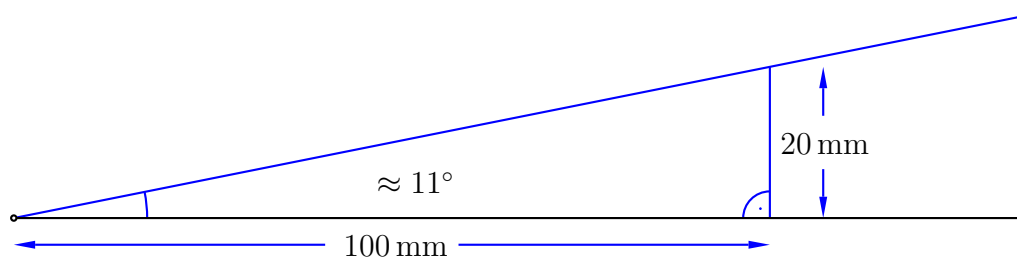
(c)  $360^\circ$  voller Winkel

(b)  $88^\circ$  spitzer Winkel

(d)  $260^\circ$  überstumpfer Winkel

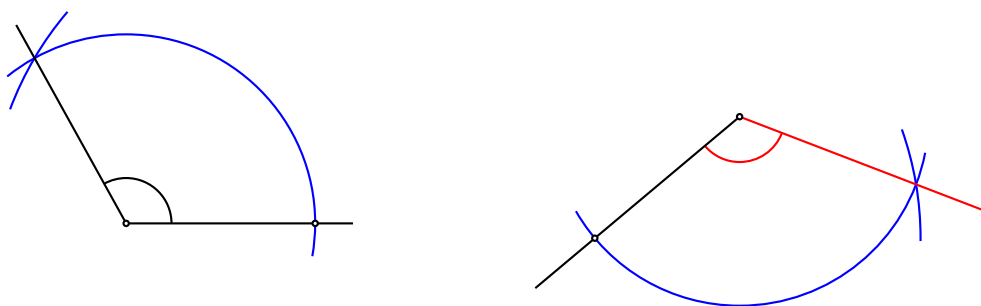
4.  $\alpha = 43^\circ$   $\beta = 127^\circ$   $\gamma = 345^\circ$

5.

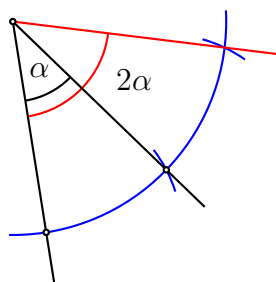


Richtige Lösungen sind  $10^\circ$ ,  $11^\circ$  oder  $12^\circ$ .

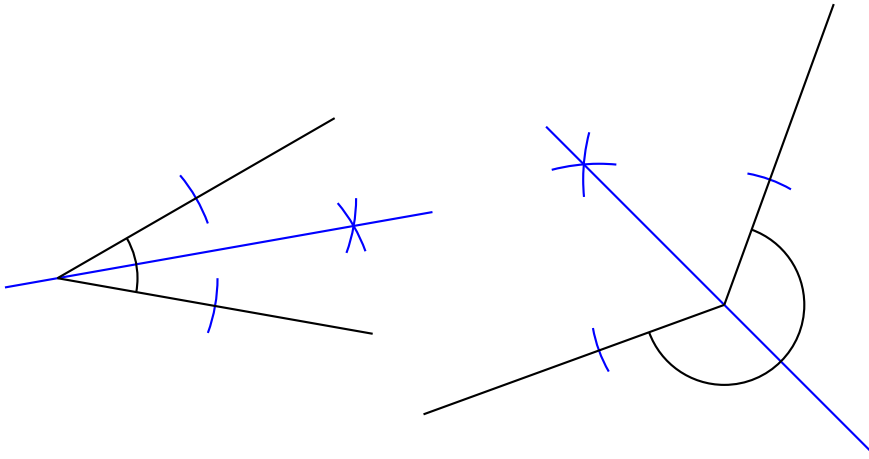
6.



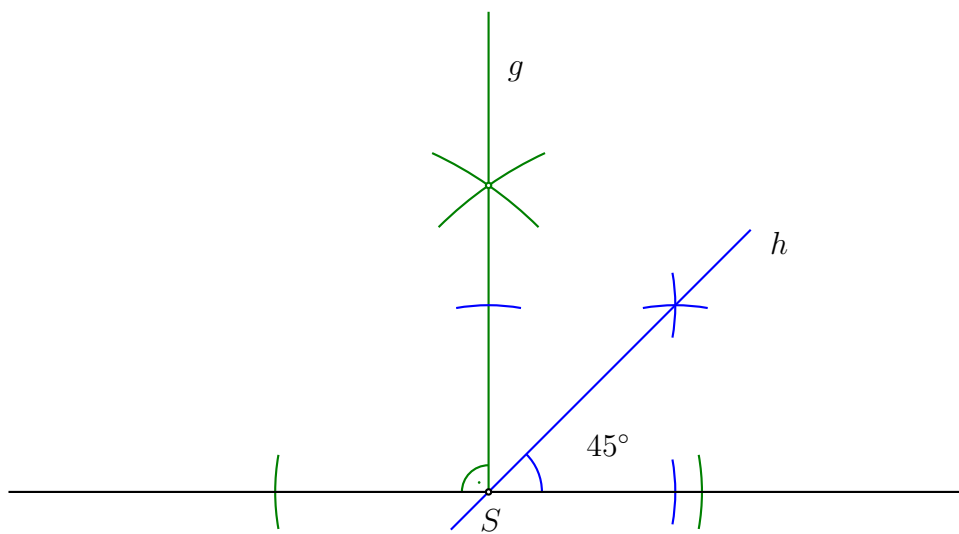
7.



8.



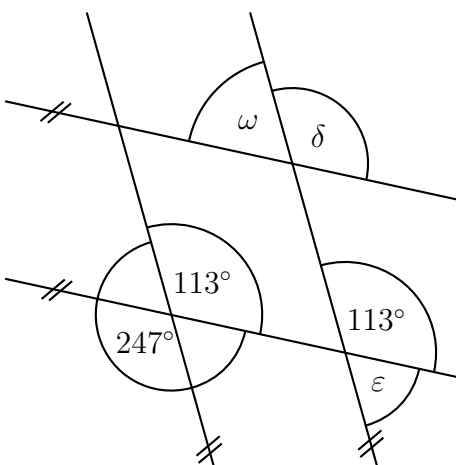
9.



10. (a) Wechselwinkel

(b) Nebenwinkel

11.



$$\varepsilon = 180^\circ - 113^\circ = 67^\circ \text{ (Nebenwinkel)}$$

$$\omega = 67^\circ \text{ (Wechselwinkel von } \varepsilon)$$

$$\delta = 113^\circ \text{ (Stufenwinkel von } 113^\circ)$$

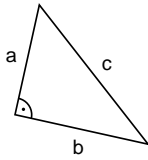
12.  $3 \cdot \alpha + 80^\circ + \alpha = 180^\circ$

$$4 \cdot \alpha + 80^\circ = 180^\circ$$

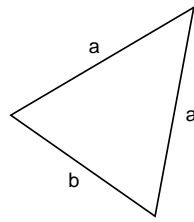
$$4 \cdot \alpha = 100^\circ$$

$$\alpha = 25^\circ$$

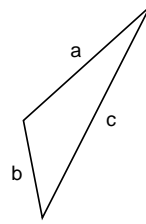
13.



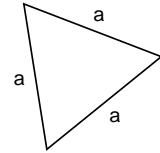
rechtwinklig



spitzwinklig-gleichschenkelig

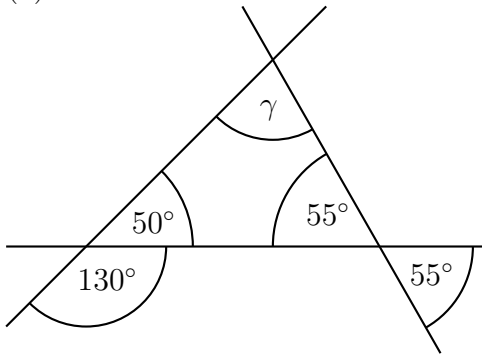


stumpfwinklig



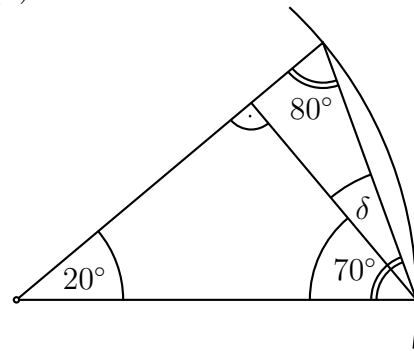
gleichseitig

14. (a)



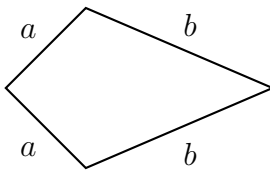
$$\gamma = 180^\circ - 50^\circ - 55^\circ = 75^\circ$$

(b)

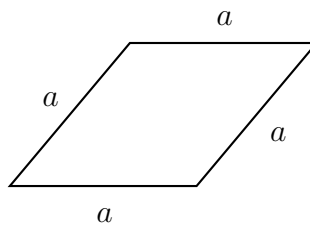


$$\delta = 80^\circ - 70^\circ = 10^\circ$$

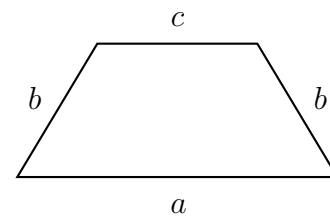
15.



Deltoid (Drachenviereck)



Rhombus (Raute)



gleichschenkliges Trapez

16.  $\beta = 180^\circ - 35^\circ = 145^\circ$

$$\gamma = \alpha = 35^\circ$$

$$\delta = \beta = 145^\circ$$

17.  $\gamma = 360^\circ - 73^\circ - 110^\circ - 105^\circ = 72^\circ$