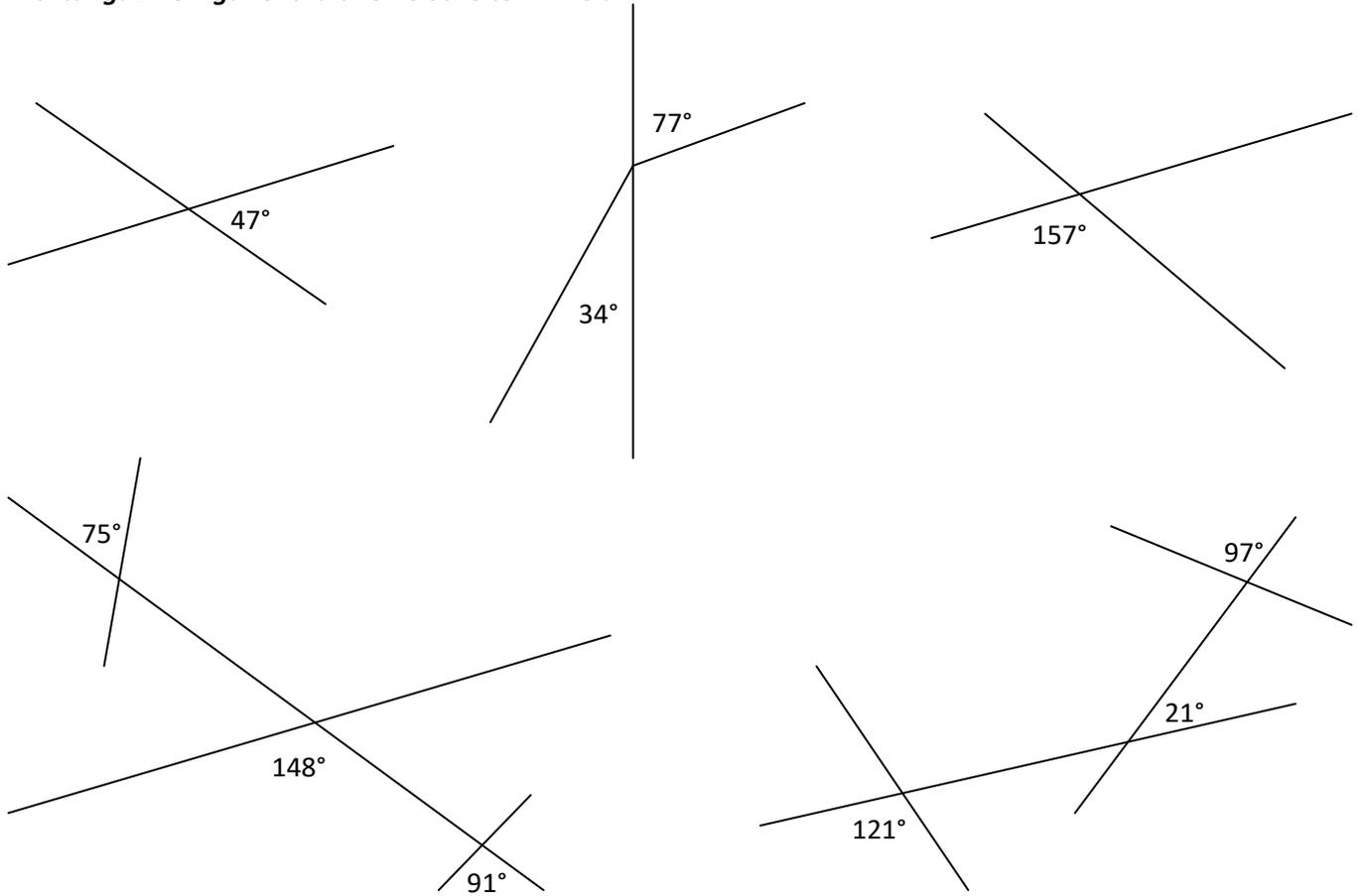


Gib alle fehlenden Winkelgrößen an!

Färbe in jeder Figur ein Scheitelwinkelpaar gelb und ein Nebenwinkelpaar blau!

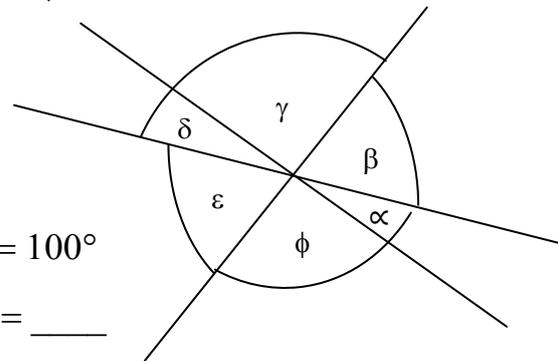
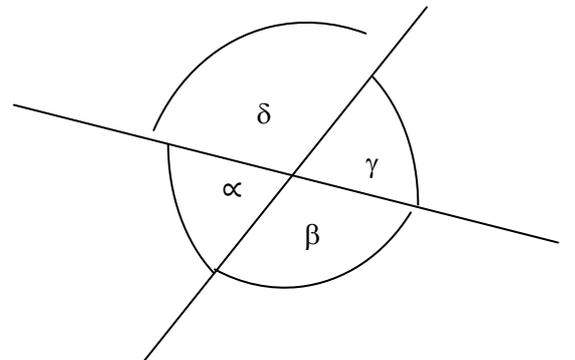
Achtung! Eine Figur enthält keine Scheitelwinkel!



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Berechne die fehlenden Winkel!

- a) $\alpha = 60^\circ$ $\beta = \underline{\hspace{1cm}}$ $\gamma = \underline{\hspace{1cm}}$ $\delta = \underline{\hspace{1cm}}$
- b) $\alpha = 58^\circ$ $\beta = \underline{\hspace{1cm}}$ $\gamma = \underline{\hspace{1cm}}$ $\delta = \underline{\hspace{1cm}}$
- c) $\alpha = 112^\circ$ $\beta = \underline{\hspace{1cm}}$ $\gamma = \underline{\hspace{1cm}}$ $\delta = \underline{\hspace{1cm}}$
- d) $\alpha = \underline{\hspace{1cm}}$ $\beta = 75^\circ$ $\gamma = \underline{\hspace{1cm}}$ $\delta = \underline{\hspace{1cm}}$
- e) $\alpha = \underline{\hspace{1cm}}$ $\beta = \underline{\hspace{1cm}}$ $\gamma = 138^\circ$ $\delta = \underline{\hspace{1cm}}$
- f) $\alpha = \underline{\hspace{1cm}}$ $\beta = \underline{\hspace{1cm}}$ $\gamma = \underline{\hspace{1cm}}$ $\delta = 172^\circ$



- g) $\alpha = \underline{\hspace{1cm}}$ $\beta = \underline{\hspace{1cm}}$ $\gamma = \underline{\hspace{1cm}}$ $\delta = \underline{\hspace{1cm}}$ $\epsilon = 58^\circ$ $\phi = 100^\circ$
- h) $\alpha = 12^\circ$ $\beta = \underline{\hspace{1cm}}$ $\gamma = \underline{\hspace{1cm}}$ $\delta = \underline{\hspace{1cm}}$ $\epsilon = 72^\circ$ $\phi = \underline{\hspace{1cm}}$
- i) $\alpha = \underline{\hspace{1cm}}$ $\beta = \underline{\hspace{1cm}}$ $\gamma = 87^\circ$ $\delta = 25^\circ$ $\epsilon = \underline{\hspace{1cm}}$ $\phi = \underline{\hspace{1cm}}$
- j) $\alpha = \underline{\hspace{1cm}}$ $\beta = \underline{\hspace{1cm}}$ $\gamma = \underline{\hspace{1cm}}$ $\delta = \underline{\hspace{1cm}}$ $\epsilon = \underline{\hspace{1cm}}$ $\phi = \underline{\hspace{1cm}}$