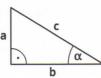
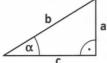
Drücke den Sinus, Kosinus und den Tangens durch das entsprechende Seitenverhältnis aus.

a)



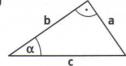


b)

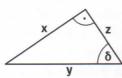




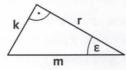
c)



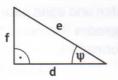




sinδ=



cosε=



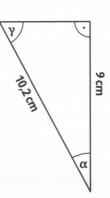
Berechne die Seitenverhältnisse, runde auf drei Dezimalstellen und ermittle die zugehörigen Winkel mithilfe des Taschenrechners.



$$\beta = 90^{\circ} - \alpha = \dots$$

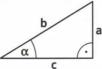


	•

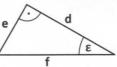


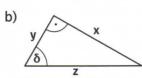
Sind die Seitenverhältnisse von Sinus, Kosinus und Tangens richtig (r) oder falsch (f) ausgedrückt?

a)

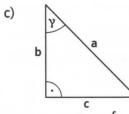






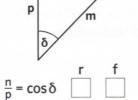


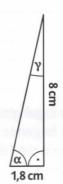
 $\frac{y}{z} = \tan \delta$



 $\frac{c}{a} = \cos \gamma$

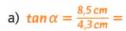






Winkel und Seitenlängen berechnen

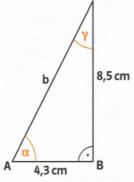
1 [III] Berechne die unbekannten Winkel.



$$y = 180^{\circ} - 90^{\circ} - \alpha$$

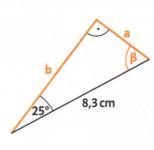
$$\gamma = 90^{\circ} - \alpha = ...$$

.....

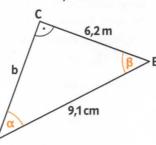


Berechne die unbekannten Seiten und Winkel.

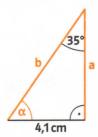
a)



b) $\sin \alpha =$







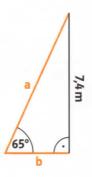
c)



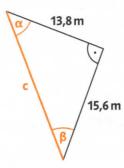
2 [III] Berechne die unbekannten Seiten.

a)
$$\sin 65^{\circ} = \frac{7.4 \text{ m}}{a}$$

$$a = \frac{7.4 \, \text{m}}{\sin 65^{\circ}} =$$







b) .



