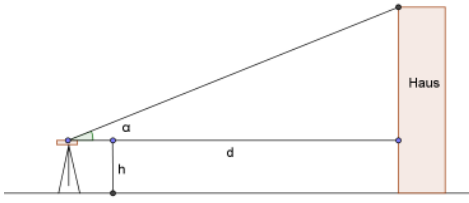
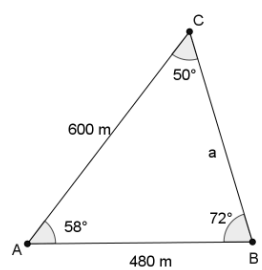
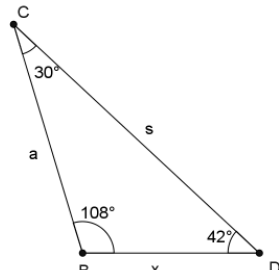


Trigonometrie

Nr.	In. Ko.	Pr. Ko.	Lösungshinweise	BE
1)	RuF	Mod Kom	<ul style="list-style-type: none"> - Messen der Entfernung d vom Theodoliten zum Haus. - Messen der Peilhöhe h des Theodliten. - Messen des Höhenwinkels α. 	4
2a)	GuM	Sft	$\gamma = 180^\circ - 72^\circ - 58^\circ = 50^\circ$ $\beta = 180^\circ - 72^\circ = 108^\circ$ $\varepsilon = 180^\circ - 108^\circ - 30^\circ = 42^\circ$	3
2b)	GuM	Pro Dar	<p>Mögliches Vorgehen:</p> <p>Planfigur 1:</p>  $\frac{a}{600} = \frac{\sin 58^\circ}{\sin 72^\circ} \quad \cdot 600$ $a = \frac{600 \cdot \sin 58^\circ}{\sin 72^\circ}$ <p>Planfigur 2:</p>  $\frac{x}{a} = \frac{\sin 30^\circ}{\sin 42^\circ} \quad \cdot a$ $x = \frac{a \cdot \sin 30^\circ}{\sin 42^\circ}$	8
2c)	ZOp	Pro Arg	<p>Statt $\sin \gamma$ muss es $\frac{1}{\sin \gamma}$ heißen.</p> <p>Richtige Umformung:</p> $\frac{600}{480} = \frac{\sin 72^\circ}{\sin \gamma}$ $\frac{480}{600} = \frac{\sin \gamma}{\sin 72^\circ} \quad \cdot \sin 72^\circ$ $\frac{480 \cdot \sin 72^\circ}{600} = \sin \gamma$	5
				20