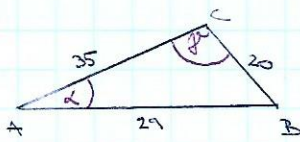


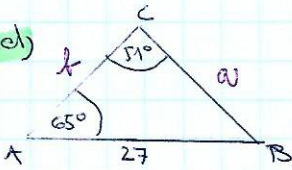
c)



$$\begin{aligned} \circ a^2 &= b^2 + c^2 - 2bc \cdot \cos \alpha \\ 20^2 &= 35^2 + 29^2 - 2 \cdot 35 \cdot 29 \cdot \cos \alpha \\ 400 &= 2066 - 2030 \cdot \cos \alpha \\ -1666 &= -2030 \cdot \cos \alpha \\ \underline{\underline{\alpha}} &= \underline{\underline{37,8^\circ}} \end{aligned}$$

$$\begin{aligned} \circ c^2 &= a^2 + b^2 - 2ab \cdot \cos \gamma \\ 29^2 &= 20^2 + 35^2 - 2 \cdot 20 \cdot 35 \cdot \cos \gamma \\ 841 &= 1625 - 1400 \cdot \cos \gamma \\ -784 &= -1400 \cdot \cos \gamma \\ \underline{\underline{\gamma}} &= \underline{\underline{55,9^\circ}} \end{aligned}$$

d)

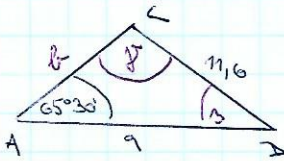


$$\begin{aligned} \circ \frac{c}{\sin \alpha} &= \frac{a}{\sin \beta} \Rightarrow \frac{27}{\sin 51^\circ} = \frac{a}{\sin 65^\circ} \\ \Rightarrow a &= \frac{27}{\sin 51^\circ} \cdot \sin 65^\circ \\ \Rightarrow \underline{\underline{a}} &= \underline{\underline{31,5}} \end{aligned}$$

$$\begin{aligned} \circ \frac{c}{\sin \alpha} &= \frac{b}{\sin \beta} \Rightarrow \frac{27}{\sin 51^\circ} = \frac{b}{\sin 64^\circ} \\ \Rightarrow b &= \frac{27}{\sin 51^\circ} \cdot \sin 64^\circ \\ \Rightarrow \underline{\underline{b}} &= \underline{\underline{31,2}} \end{aligned}$$

$$\beta = 180^\circ - 65^\circ - 51^\circ = 64^\circ$$

e)

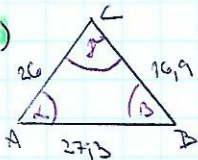


$$\begin{aligned} \circ \frac{a}{\sin \alpha} &= \frac{c}{\sin \gamma} \Rightarrow \frac{11,6}{\sin 65^\circ 30'} = \frac{9}{\sin \gamma} \\ \Rightarrow \sin \gamma &= \frac{9 \cdot \sin 65^\circ 30'}{11,6} \\ \Rightarrow \underline{\underline{\gamma}} &= \underline{\underline{47^\circ 54'}} \end{aligned}$$

$$\begin{aligned} \circ \frac{a}{\sin \alpha} &= \frac{b}{\sin \beta} \Rightarrow \frac{11,6}{\sin 65^\circ 30'} = \frac{b}{\sin 69^\circ 36'} \\ \Rightarrow b &= \frac{11,6}{\sin 65^\circ 30'} \cdot \sin 69^\circ 36' \\ \underline{\underline{b}} &= \underline{\underline{11,9}} \end{aligned}$$

$$\circ \beta = 180^\circ - 65^\circ 30' - 47^\circ 54' = \underline{\underline{66^\circ 36'}}$$

f)



$$\begin{aligned} \circ b^2 &= a^2 + c^2 - 2ac \cdot \cos \beta \\ 26^2 &= (16,9)^2 + (27,3)^2 - 2 \cdot 16,9 \cdot 27,3 \cdot \cos \beta \\ 676 &= 1030,9 - 922,74 \cdot \cos \beta \\ -354,9 &= -922,74 \cdot \cos \beta \\ \underline{\underline{\beta}} &= \underline{\underline{67^\circ 22'}} \end{aligned}$$

$$\begin{aligned} \circ c^2 &= a^2 + b^2 - 2ab \cdot \cos \gamma \\ (27,3)^2 &= (16,9)^2 + 26^2 - 2 \cdot 16,9 \cdot 26 \cdot \cos \gamma \\ 745,29 &= 961,61 - 878,8 \cdot \cos \gamma \\ -216,32 &= -878,8 \cdot \cos \gamma \\ \underline{\underline{\gamma}} &= \underline{\underline{75^\circ 44'}} \end{aligned}$$

$$\circ \alpha = 180^\circ - 67^\circ 22' - 75^\circ 44' = \underline{\underline{36^\circ 54'}}$$

Ex. 2

$$\begin{aligned} a^2 &= b^2 + c^2 - 2bc \cdot \cos \beta \\ a^2 &= 250^2 + 360^2 - 2 \cdot 250 \cdot 360 \cdot \cos 34^\circ \\ a^2 &= 42873,23694 \\ a &= 207,05 \Rightarrow \underline{\underline{207m}} \end{aligned}$$

Ex. 3

$$\begin{aligned} \frac{b}{\sin \beta} &= \frac{c}{\sin \gamma} \Rightarrow \frac{30}{\sin 41^\circ} = \frac{25}{\sin \gamma} \\ \sin \gamma &= \frac{25 \cdot \sin 41^\circ}{30} \\ \underline{\underline{\gamma}} &= \underline{\underline{33,14^\circ}} \Rightarrow \underline{\underline{33^\circ}} \end{aligned}$$