TE trigonométrie

4.1 à 4.10

4.15

4.18

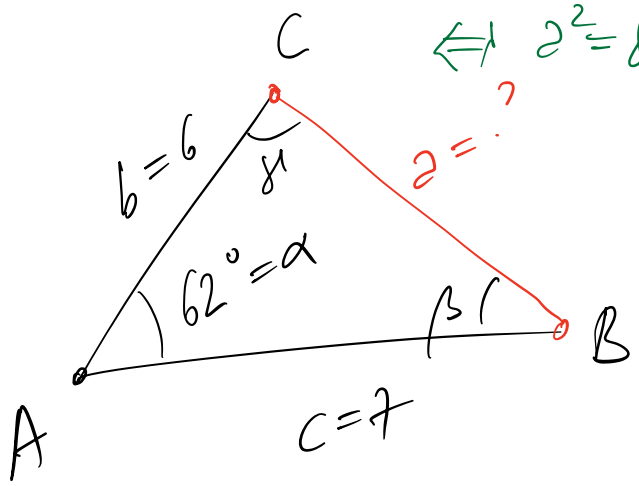
4.20 à 4.23

$a^2 = b^2 + c^2 - 2bc\cos\alpha \iff a^2 = 36 + 49 - 2\cdot 6\cdot 7\cdot \cos 62° \iff a^2 = 85 - (84\cdot\cos 62°)$

$b = 6$

$c = 7$

$\alpha = 62°$



$$\frac{a}{\sin\alpha} = \frac{b=6}{\sin\beta} = \frac{c=7}{\sin\gamma}$$

$\alpha = 62°$

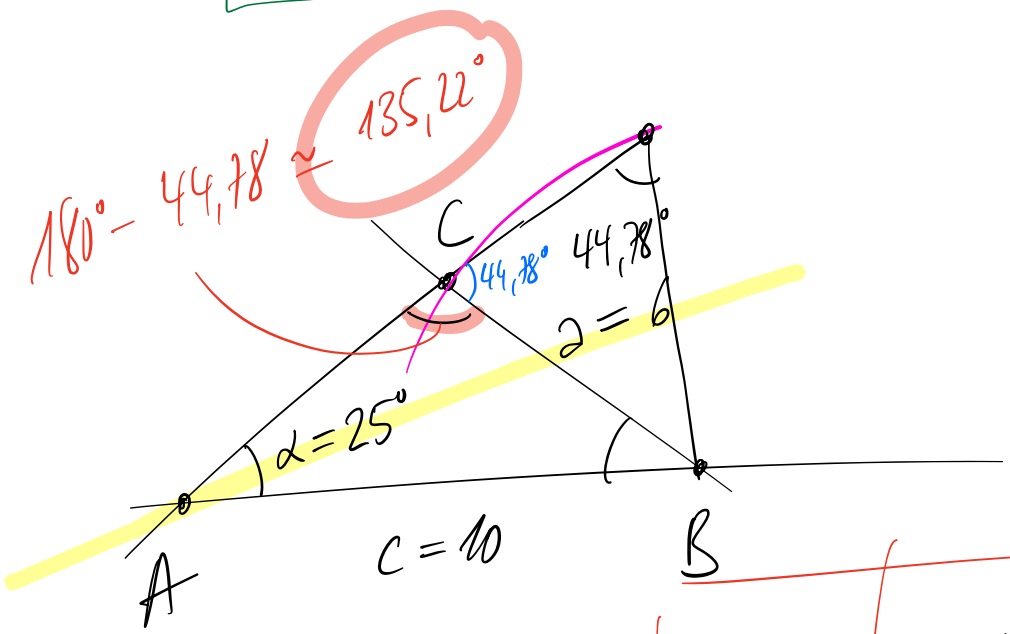
$36 = b^2 + 100 - 2\cdot b\cdot 10\cdot\cos 25°$

$a^2 = b^2 + c^2 - 2bc\cos\alpha$

$\alpha = 25°$

$a = 6$

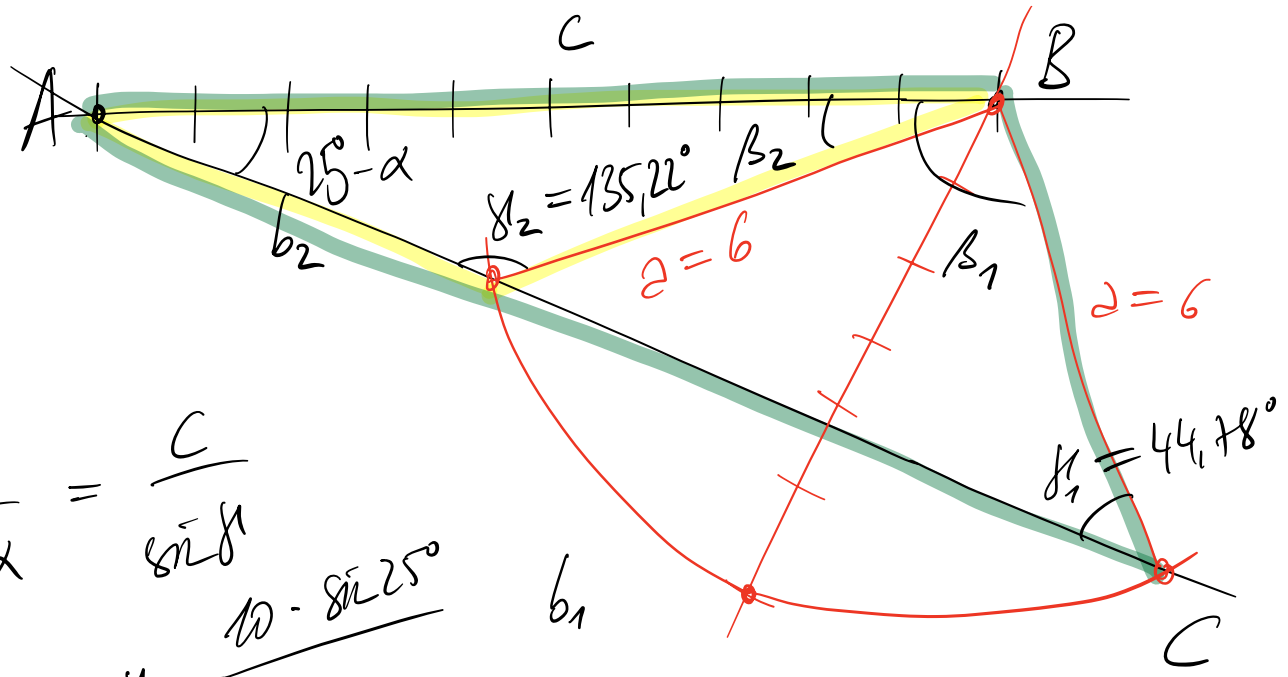
$c = 10$



⚠ Formule du sinus →

$$\frac{a}{\sin\alpha} = \frac{6}{\sin 25°} = \frac{10}{\sin\gamma}$$

$\gamma \simeq$ $\sin\gamma \simeq 0{,}706364$ $\sin\gamma = \dfrac{10\sin 25°}{6}$



$$\frac{a}{\sin\alpha} = \frac{c}{\sin\gamma}$$

$$\Leftrightarrow \sin\gamma = \frac{10 \cdot \sin 25°}{6}$$

$$\Leftrightarrow \gamma = 44{,}78°$$