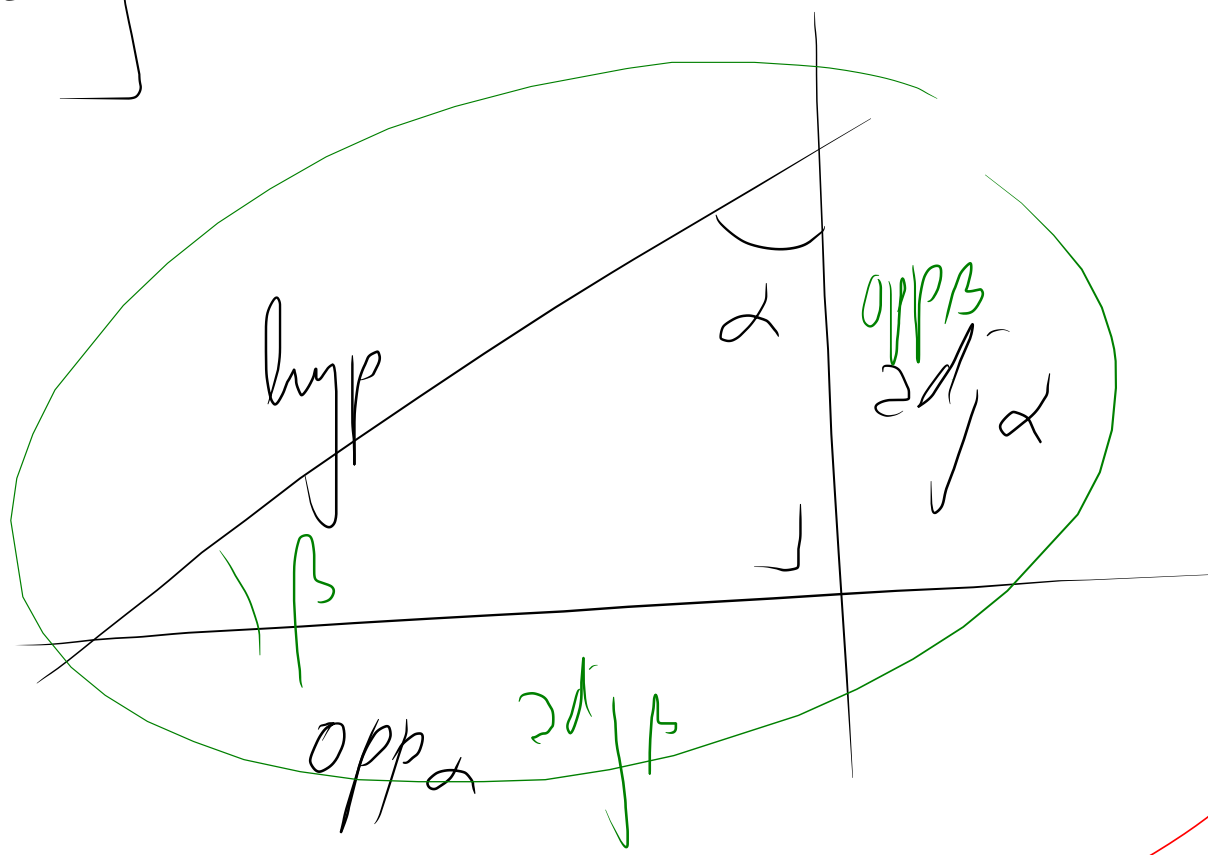
Trigo

5.4 6

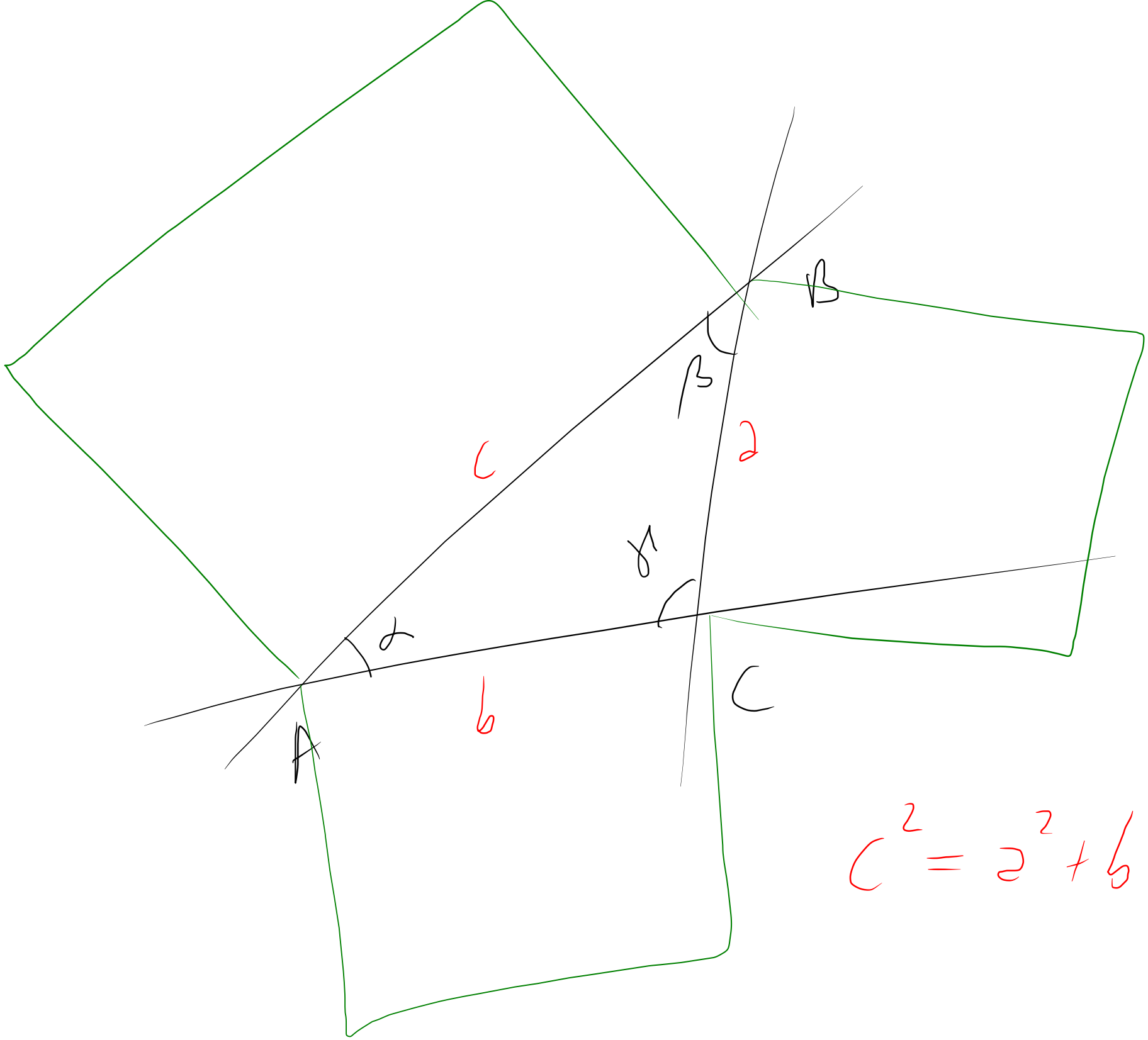
α, β, γ



$$\cos\alpha = \frac{adj\,\alpha}{hyp}$$

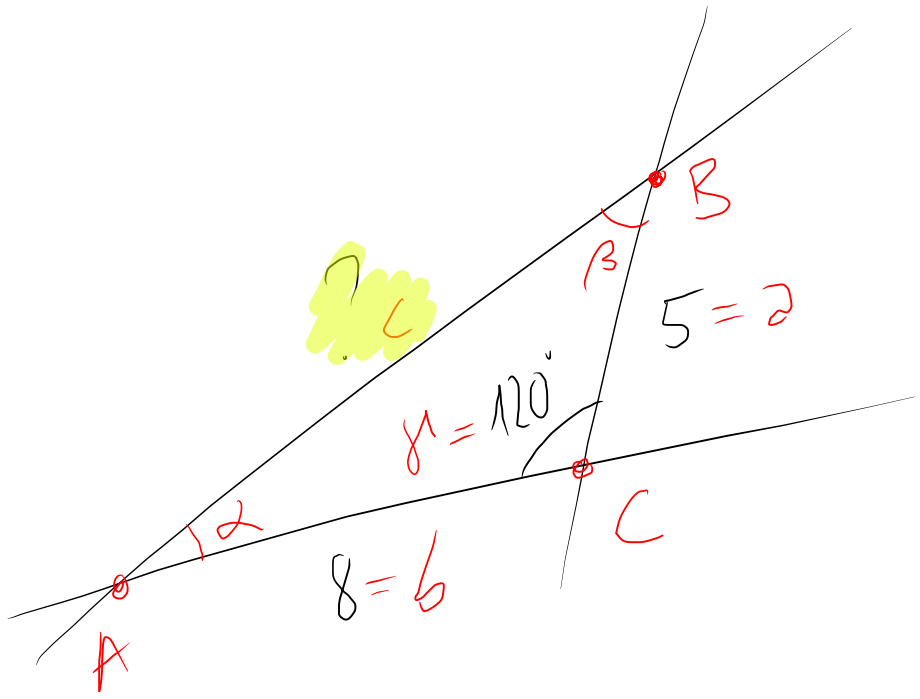
$$\sin\alpha = \frac{opp\,\alpha}{hyp}$$

$$\tan\alpha = \frac{opp\,\alpha}{adj\,\alpha}$$



Correction

$$c^2 = a^2 + b^2 - 2 \cdot a \cdot b \cdot \cos\gamma$$



$$c^2 = a^2 + b^2 - 2ab\cos\gamma$$

5^2 8^2 — 5 8 — $\cos 120° = -0{,}5$

$$c^2 = 25 + 64 - 2 \cdot 40 \cdot (-0{,}5)$$

$$= 89 + 40 = 129$$

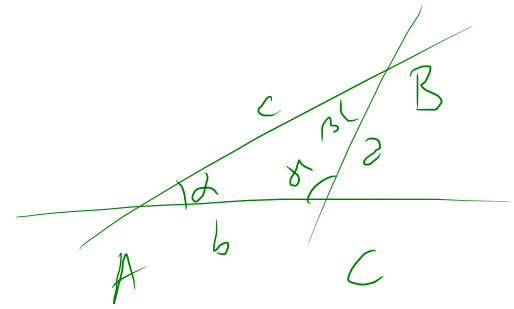
$$c = \sqrt{129} \simeq \underline{11{,}36}$$

$a = 3$

$b = 5$

$\gamma = 82°$

$c = ?$



$$c^2 = a^2 + b^2 - 2ab\cos\gamma$$

$$c^2 = 3^2 + 5^2 - 2 \cdot 3 \cdot 5 \cdot \cos(82°)$$

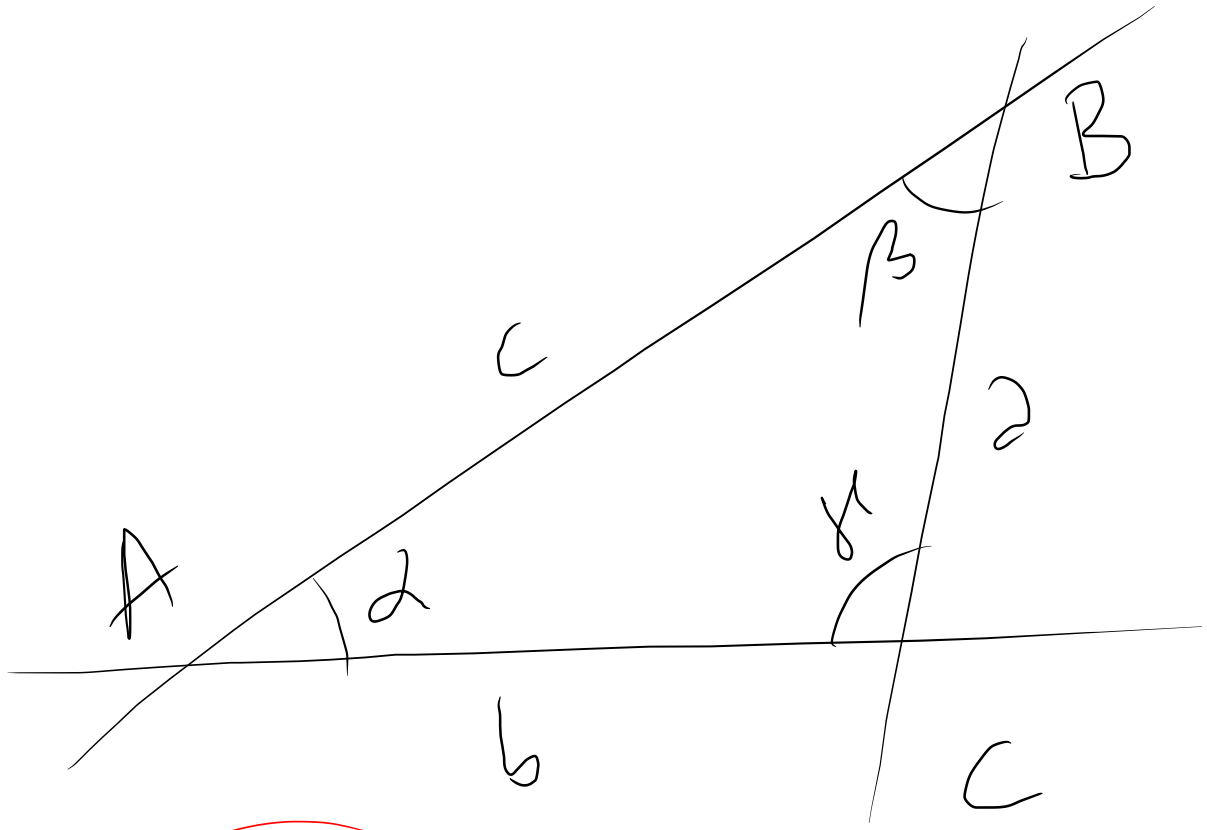
$$= 9 + 25 - 30\cos(82°)$$

$$= 34 - 30\cos(82°)$$

$$\simeq 34 - 30 \cdot 0{,}14$$

$$\simeq 28{,}8$$

$$\Rightarrow \quad c \simeq \sqrt{28{,}8} \simeq 5{,}46$$



sinus

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

Cosinus

$$c^2 = a^2 + b^2 - 2ab\cdot\cos\gamma$$

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

$$b^2 = a^2 + c^2 - 2ac\cos\beta$$

5. 4. 6) c)