

$$c^2 = a^2 + b^2 - 2ab \cdot \cos \gamma \Rightarrow c^2 = a^2 + b^2 - 2ab \cdot \cos 50^\circ \Rightarrow$$

$$c = \sqrt{a^2 + b^2 - 2ab \cdot \cos \gamma} = c = \sqrt{a^2 + b^2 - 2ab \cdot \cos 50^\circ} =$$

$$= \sqrt{16 + 25 - 2 \cdot 4 \cdot 5 \cdot 0,87} \approx \sqrt{6,36} \approx 2,52$$