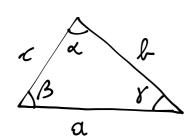
$$a=12\sqrt{2}\,,$$

$$\beta = 60^{\circ}$$

$$\gamma = 45^{\circ}$$
.

190
$$a = 12\sqrt{2}$$
, $\beta = 60^{\circ}$, $\gamma = 45^{\circ}$. $b ? c?$ Rischere il triangels



$$b=?$$
 $\alpha=?$

TH.
$$SEN/\Rightarrow \frac{a}{\sin a} = \frac{b}{\sin \beta} \Rightarrow b = \frac{a}{\sin a} \cdot \sin \beta =$$

$$\sin 75^{\circ} = \sin (30^{\circ} + 45^{\circ}) =$$

$$= \sin 30^{\circ} \cos 45^{\circ} + \sin 45^{\circ} \cos 30^{\circ} =$$

$$= \frac{1}{2} \cdot \frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2} \cdot \frac{\sqrt{3}}{2} = \frac{\sqrt{2} + \sqrt{6}}{4}$$

$$\frac{6}{4} \sqrt{2} \sqrt{2} \cdot \frac{\sqrt{3}}{2} = \frac{6 \sqrt{6} \cdot 4}{\sqrt{2} + \sqrt{6}} = \frac{1}{2} \sqrt{2} + \sqrt{6} = \frac{1}{2} \sqrt{2} = \frac{$$

$$\frac{C}{\sin V} = \frac{\Delta}{\sin \Delta} \implies C = \frac{\Delta}{\sin \Delta} \cdot \sin V =$$

$$= \frac{12\sqrt{2}}{\frac{\sqrt{2} + \sqrt{6}}{4}} \cdot \frac{\sqrt{2}}{2} = \frac{24 \cdot 2}{\sqrt{6} + \sqrt{2}} \cdot \frac{\sqrt{6} - \sqrt{2}}{\sqrt{6} - \sqrt{2}} =$$

$$= \frac{12}{48} (\sqrt{6} - \sqrt{2}) = 12\sqrt{2} (\sqrt{3} - 1)$$

$$\frac{a}{\sin a} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma} (=2R)$$

$$\frac{20}{\sin 170^{\circ}} = \frac{9}{\sin 3} \implies \frac{70}{\sqrt{3}} = \frac{9}{\sin 3}$$

$$\beta = \arcsin\left(\frac{9\sqrt{3}}{40}\right)$$
 $\approx 22,9^{\circ}$

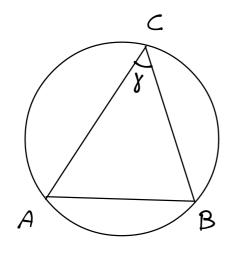
$$\beta = \arcsin\left(\frac{9\sqrt{3}}{40}\right) \qquad V \qquad \beta = 180^{\circ} - \arcsin\left(\frac{9\sqrt{3}}{40}\right)$$

$$\approx 22,9^{\circ} \qquad \qquad \approx 157^{\circ}$$
NON ACCETABILE

d-120°

166 •°

Determina il raggio della circonferenza circoscritta al triangolo ABC, sapendo che AB=40 cm e che cos $A\widehat{C}B=\frac{12}{13}$. [52 cm]



$$\overline{AB} = 40$$
 $Cos Y = \frac{12}{13}$

$$R = \frac{\overline{AB}}{z \cdot \sin \delta} = \frac{\overline{AB}}{z \sqrt{1 - \cos \delta}} =$$

$$=\frac{40}{2\sqrt{1-\frac{144}{168}}}=\frac{40}{2\sqrt{\frac{169-144}{169}}}=$$

$$= \frac{40^{20}}{2\sqrt{\frac{25}{163}}} = \frac{20}{\frac{5}{13}} = 13.4 = \boxed{52}$$