

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

Ad. es.

Se conosco  $\alpha$ ,  $\beta$  e  $a$ , posso ricavare  $b$ .

$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} \Rightarrow b = \frac{a \cdot \sin \beta}{\sin \alpha}$$

o)  $a=18$   $b=36$   $\alpha=45$   
 problema senza soluzione.  
 $\sin \beta = \sqrt{2}$  !

o)  $a=2\sqrt{3}$   $b=6$   $\alpha=30$

$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} \Rightarrow \sin \beta = \frac{b}{a} \sin \alpha$$

$$\sin \beta = \frac{6}{2\sqrt{3}} \cdot \frac{1}{2} = \frac{3}{2\sqrt{3}} = \frac{\sqrt{3}}{2}$$

$$\beta = 60 \quad \vee$$

$$\gamma = 90$$

Usando pitagora

$$\beta = 120$$

$$\gamma = 30$$

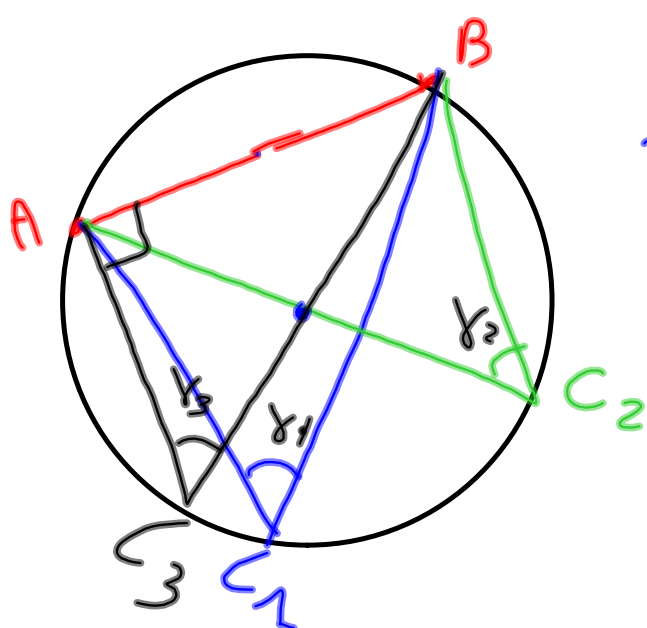
$$c = 2\sqrt{3}$$

$$c = \sqrt{12 + 36} = \sqrt{48}$$

$$= \sqrt{2^4 \cdot 3} = 4\sqrt{3}$$

oppure

$$\frac{b}{\sin \beta} = \frac{c}{\sin \gamma} \Rightarrow c = \frac{\sin \gamma}{\sin \beta} \cdot b$$



T. DELLA CORDA

$$\text{Tesi: } \frac{\overline{AB}}{\text{Sen } \hat{A}CB} = 2r$$

$$2r \text{ Sen } \gamma_3 = AB$$