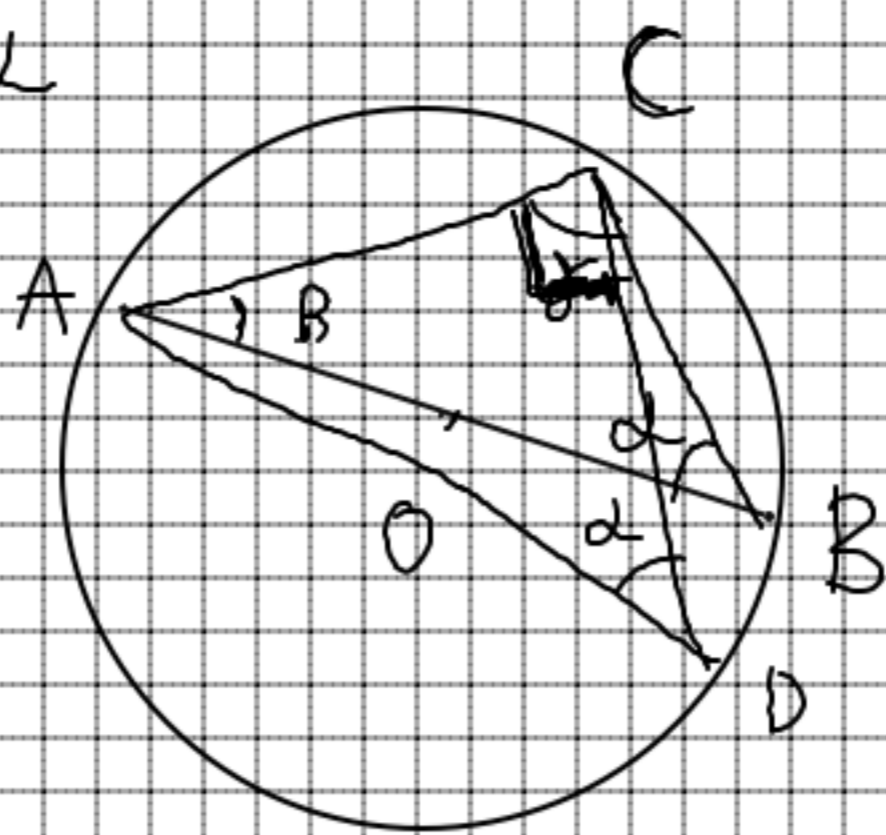


$$AC = 2r \sin \alpha$$



N° 36 PAG 222

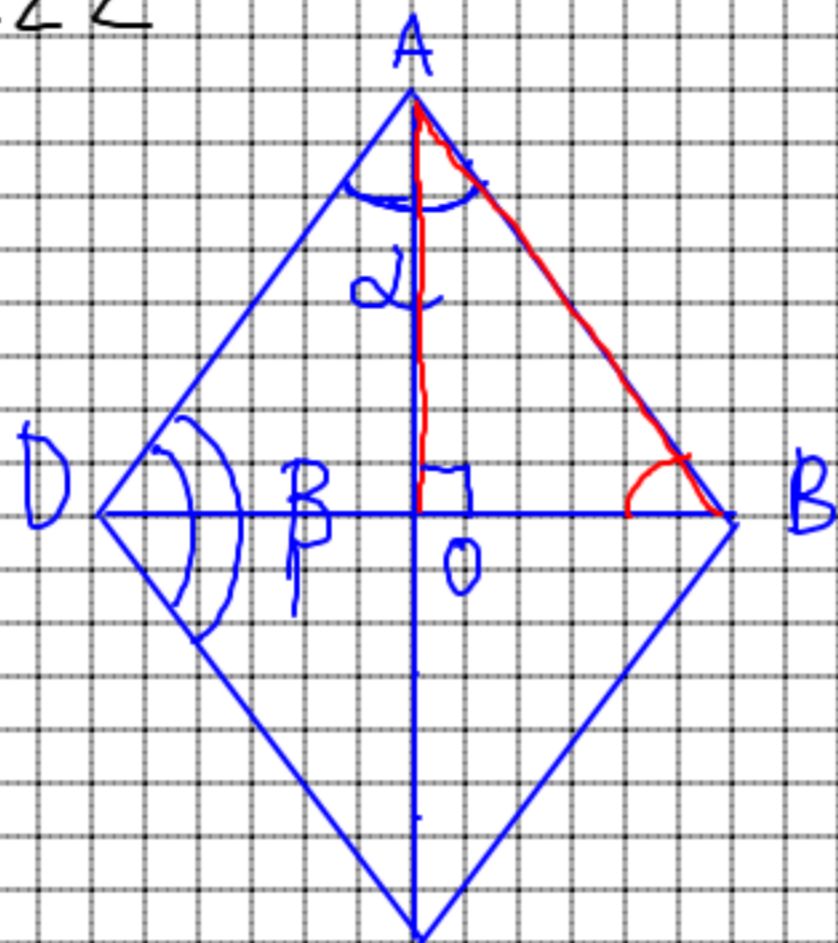
DATI

$$AB = 70 \text{ cm}$$

$$AC = 76 \text{ cm}$$

$\sin \alpha$?

$\sin \beta$?



$$AO = \frac{AC}{2} = \frac{76}{2} = 38 \text{ cm}$$

$$AO = AB \sin \hat{A}BO$$

$$\sin \hat{A}BO = \frac{AO}{AB} = \frac{38}{70} = \frac{19}{35}$$

$$\sin 2 \hat{A}BO = 2 \sin \hat{A}BO \cos \hat{A}BO$$

$$\cos \hat{A}BO = \pm \sqrt{1 - \sin^2 \hat{A}BO} = \pm \sqrt{1 - \frac{361}{1225}}$$

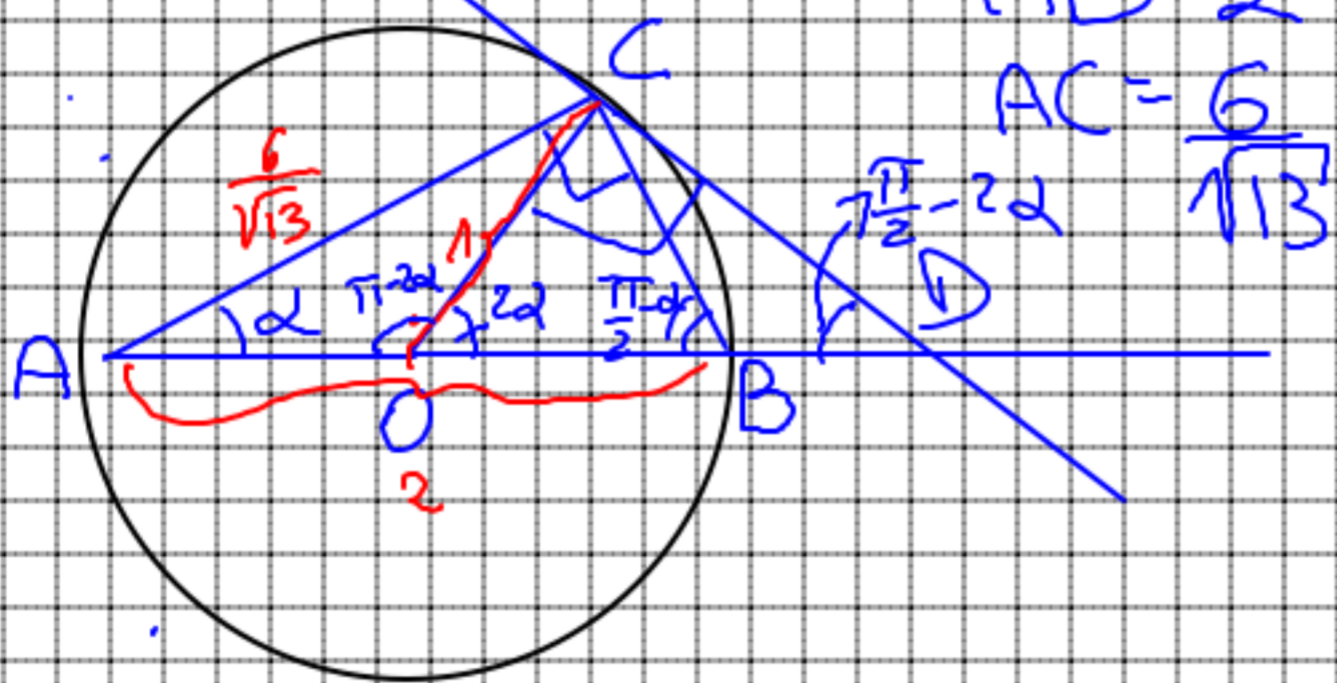
$$= \pm \sqrt{\frac{1225 - 361}{1225}} = \pm \sqrt{\frac{864}{1225}}$$

$$\cos \hat{A}BO = \pm \frac{24}{35}$$

$$\sin 2 \hat{A}BO = 2 \cdot \frac{19}{35} \cdot \frac{24}{35} = \frac{912}{1225}$$

PAG. 223 N° 45

ACB
OCD
BCD



$$AB = 2$$

$$AC = \frac{6}{\sqrt{13}}$$

$$\hat{B}AC = \alpha$$

$$AC \perp AB \Rightarrow \text{e' vello in } \hat{C} : AC = AB \cos \alpha \Rightarrow \cos \alpha = \frac{AC}{AB}$$

$$\cos \alpha = \frac{6}{\sqrt{13}} \cdot \frac{1}{2} = \frac{3}{\sqrt{13}}$$

$$\sin \alpha = \pm \sqrt{1 - \cos^2 \alpha} = \pm \sqrt{1 - \frac{9}{13}} = \pm \frac{2}{\sqrt{13}} \Rightarrow \sin \alpha = + \frac{2}{\sqrt{13}}$$

$$CB = AB \sin \alpha = 2 \cdot \frac{2}{\sqrt{13}} = \frac{4}{\sqrt{13}}$$

... finisce!