



Correction - Méthodes

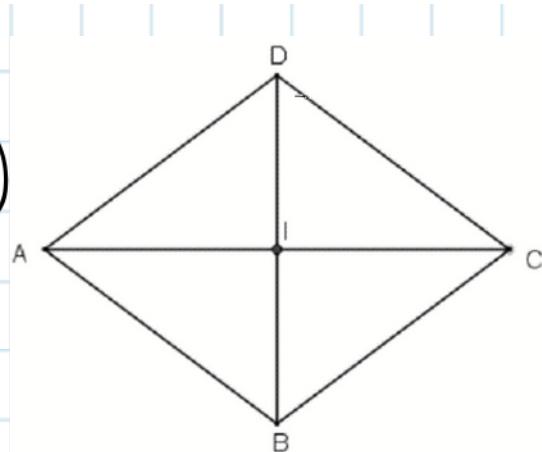
EXERCICE N°3 : 3 points 10'



Soit ABCD un losange direct de centre I.

Montrer que $S_{(AC)} \circ S_{(BD)} = S_{(BD)} \circ S_{(AC)}$.

$$\begin{aligned} \text{→ } S_{(AC)} \circ S_{(BD)} &= R_{(I, 2(\vec{IB}, \vec{IA}))} \\ &= R_{(I, -\pi)} \\ &= S_I \end{aligned}$$



$$\begin{aligned} \text{→ } S_{(BD)} \circ S_{(AC)} &= R_{(I, 2(\vec{IA}, \vec{IB}))} \\ &= R_{(I, \pi)} \\ &= S_I \end{aligned}$$

Donc $S_{(AC)} \circ S_{(BD)} = S_{(BD)} \circ S_{(AC)}$

Rq = Si $\Delta \perp \Delta'$ alors $S_\Delta \circ S_{\Delta'} = S_{\Delta'} \circ S_\Delta$

