

PROBLEMI GEOMETRIA / 2

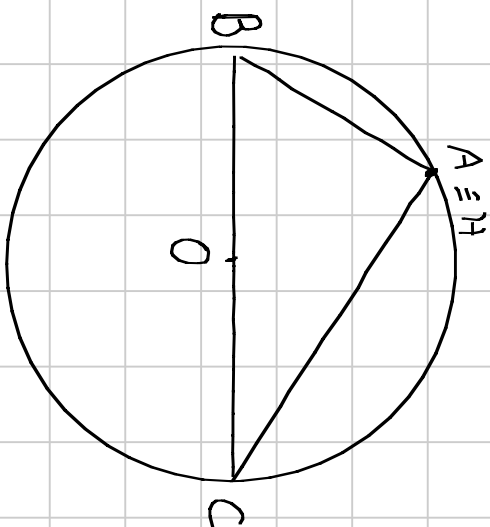
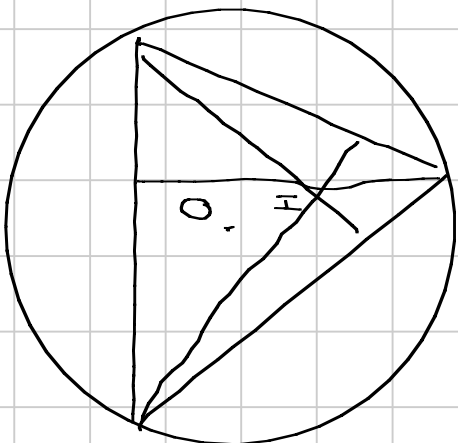
①

$$OH^2$$

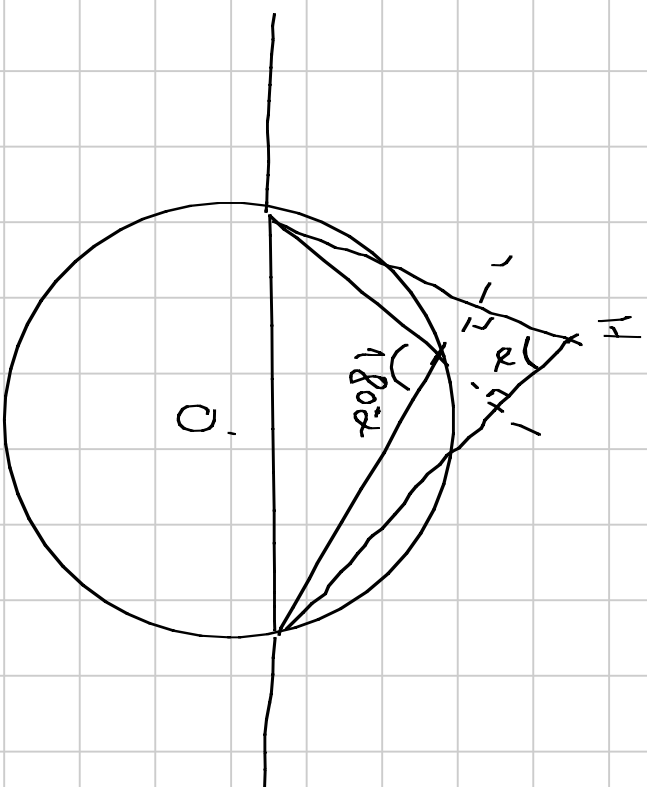
$$H = A + B + C$$

$$\begin{aligned} (A + B + C) \cdot (A + B + C) &= R^2 + R^2 + R^2 + 2A \cdot B + 2B \cdot C + 2A \cdot C = \\ &= 3R^2 + 2R^2 - a^2 + 2R^2 - a^2 + 2R^2 - b^2 = \\ &= 9R^2 - a^2 - b^2 - c^2 \end{aligned}$$

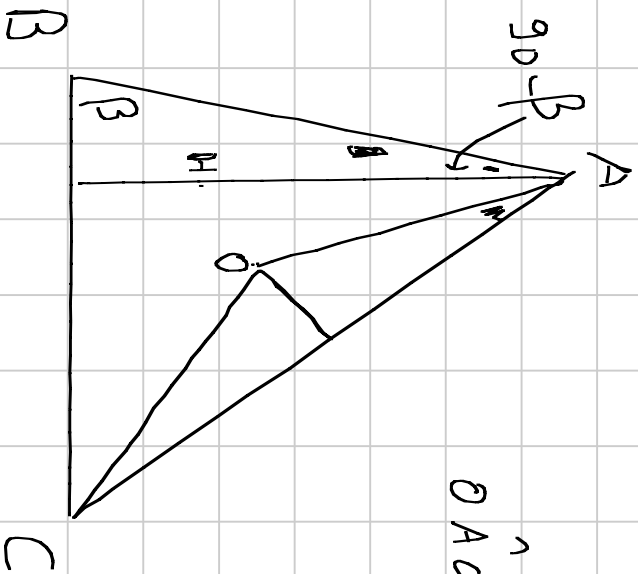
2



$OH < R \Leftrightarrow$ acutangle
 $OH = R \Leftrightarrow$ rightangle
 $OH > R \Leftrightarrow$ obtuseangle

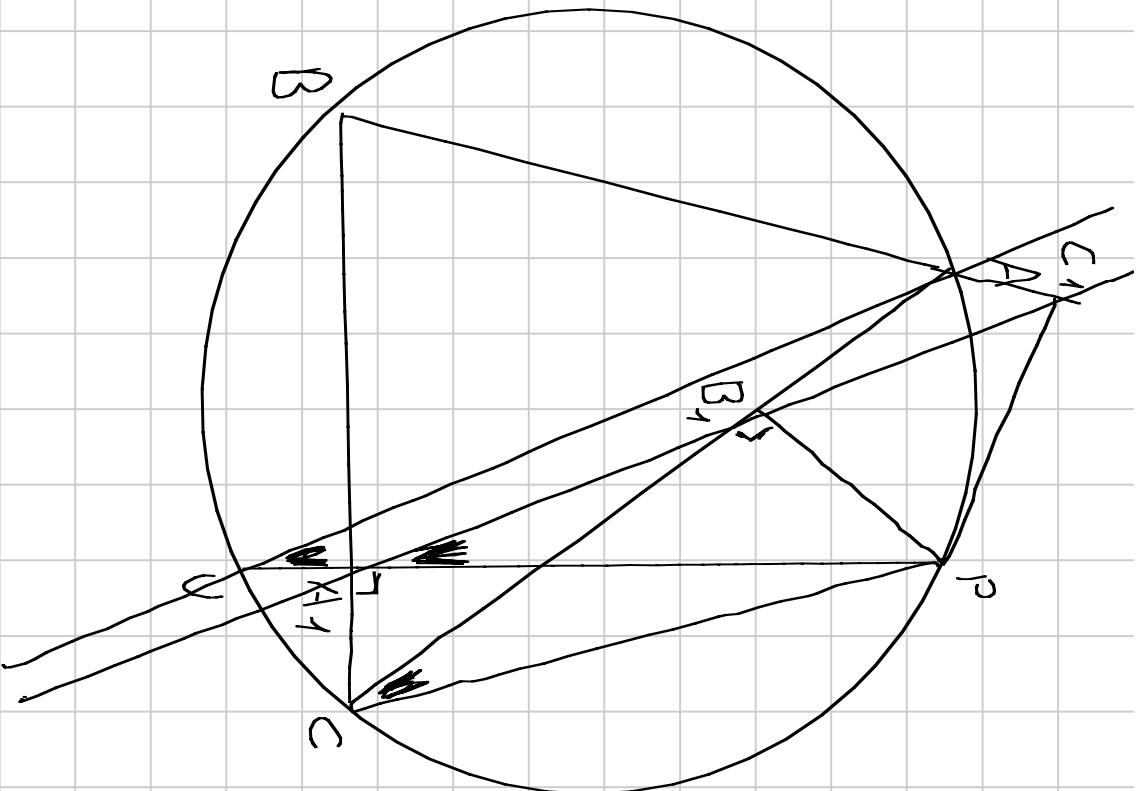


3



$$\hat{\angle} OAC = \frac{180 - 2\beta}{2} = 90 - \beta$$

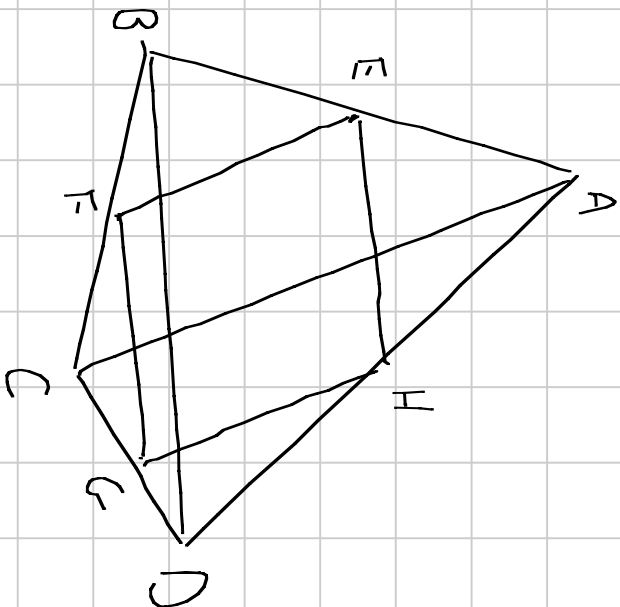
f



$$A \cup P = A \cap P = B_1 A_1 P$$

$AVCP \rightarrow B_1A_1CP$
cilicis

5



$EF \parallel AC$
 $GH \parallel AC$
kalete

