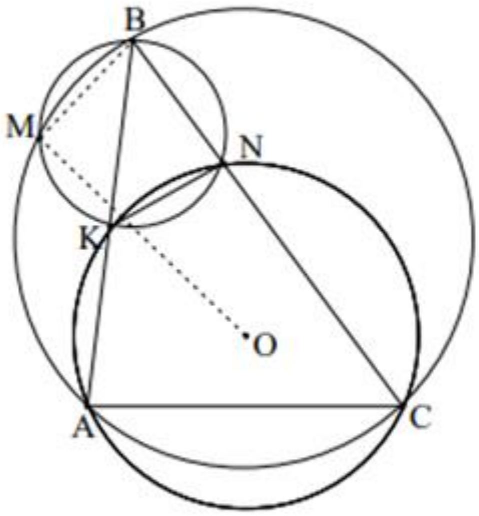

Example 1 76 : As shown in Figure 3, A, C, K, N share a circle, O is its center, AK intersects CN at B, and the circumscribed circles of $\triangle ACB$ and $\triangle KNB$ intersect at M. Prove: M, K, O, C are four points in a circle, $MB \perp MO$. (1985 International Olympic Examination Questions)

$$\frac{M-K}{M-C}\frac{O-C}{O-K}=\left(\frac{M-B}{M-C}/\frac{A-B}{A-C}\right)\left(\frac{M-K}{M-B}\frac{N-B}{N-K}\right)\frac{N-C}{N-B}\frac{A-B}{K-A}\left(\frac{K-C}{K-O}\frac{A-K}{A-C}\right)$$

$$\left(\frac{N-A}{N-C}\frac{C-O}{C-A}\right)\left(\frac{N-K}{N-A}/\frac{C-K}{C-A}\right),$$

$$\frac{M-O}{M-B}=\frac{\frac{A-B}{A-C}}{\frac{M-B}{M-C}}\frac{\frac{K-C}{K-O}}{\frac{M-C}{M-O}}\frac{A-K}{A-B}\left(\frac{K-O}{K-C}\frac{A-C}{A-K}\right)。$$