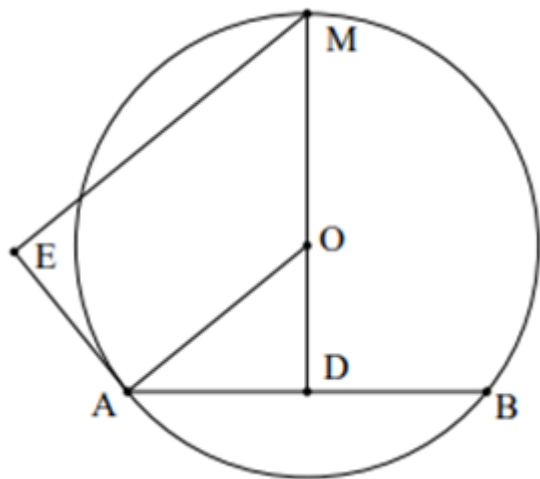


Example 151 : As shown in Figure 3, in $\triangle MAB$, O is the circumcenter, D is the midpoint of AB , $EM \parallel AO$, $EA \perp AO$, to prove: $MD = ME$.



$$\frac{E-M}{E-D} / \frac{D-E}{D-M} = \left(\frac{E-M}{E-A} \frac{A-B}{D-M} \right) \left(\frac{A-E}{A-M} / \frac{D-E}{D-M} \right)^2 \left(\frac{A-M}{A-B} / \frac{A-E}{A-M} \right),$$