

$$5) * \hat{B}OF + \hat{FOE} + \hat{EOA} = 180^\circ \text{ (A, O, B are collinear)}$$

$$\hat{B}OF + 90^\circ + 60^\circ = 180^\circ$$

$$\hat{B}OF + 150^\circ = 180^\circ$$

$$\hat{B}OF = 180^\circ - 150^\circ$$

$$\hat{B}OF = 30^\circ$$

\* In  $\triangle HAE$  we have:

$$- \hat{HAE} = 90^\circ \text{ (proved)}$$

$$- \hat{AEO} + \hat{OEH} = \hat{AEH}$$

$$30^\circ + 30^\circ = \hat{AEH}$$

$$\hat{AEH} = 60^\circ$$

then,  $HAE$  is semi-equil.  $\triangle$  at A.

$$\text{So, } \hat{AHE} = 30^\circ.$$

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