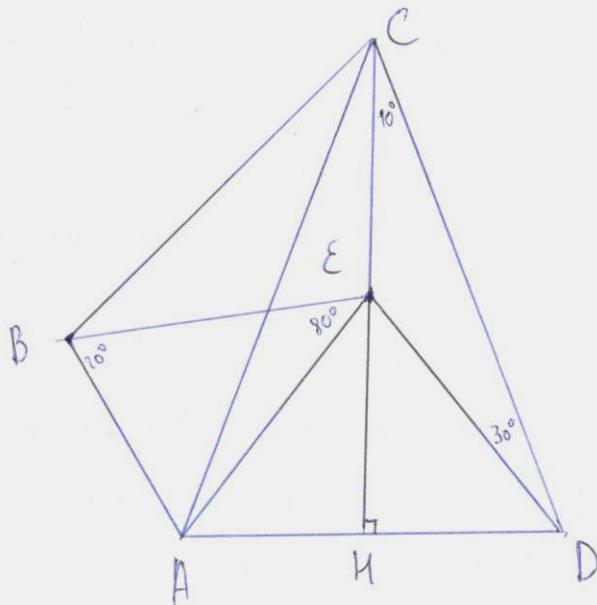


# Zagara №4



1)  $\angle CAD = \angle CDA \Rightarrow CA = CD$   
 $\angle EAD = \angle EDA \Rightarrow EA = ED$   
 $CA = CD, EA = ED \Rightarrow \triangle ACE \cong \triangle DCE \Rightarrow$   
 $\Rightarrow \angle ACE = \angle DCE \Rightarrow CE - \text{диссектирующая},$   
 а. н. к.  $\triangle ACD$  - равнобедр., но у биссект.

2)  $\angle AEH = 90^\circ - 50^\circ = 40^\circ$   
 $\angle BEA = 80^\circ$   
 $\Downarrow$   
 $\angle BEC = 180^\circ - 80^\circ - 40^\circ = 60^\circ$

3)  $\angle EDC = 80^\circ - 50^\circ = 30^\circ$   
 4)  $\angle ECD = \frac{180^\circ - 2 \cdot 80^\circ}{2} = 10^\circ$

5)  $\angle ABE = 180^\circ - 2 \cdot 80^\circ = 20^\circ$

6) Тто мөнгөн сүүгүүлж  $\triangle ECD$ :  $\frac{ED}{\sin 10^\circ} = \frac{EC}{\sin 30^\circ} \Rightarrow ED = \frac{EC \cdot \sin 10^\circ}{\sin 30^\circ}$

7) Тто мөнгөн сүүгүүлж  $\triangle BEA$ :  $\frac{EA}{\sin 20^\circ} = \frac{BE}{\sin 80^\circ} \Rightarrow EA = \frac{BE \cdot \sin 20^\circ}{\sin 80^\circ}$

8)  $EA = ED$   
 $\Downarrow$

$$\frac{EC \cdot \sin 10^\circ}{\frac{1}{2}} = BE \cdot \frac{\sin 20^\circ}{\sin 80^\circ}$$

$$\sin 80^\circ = \cos 10^\circ, \text{ м. к. } 80^\circ + 10^\circ = 90^\circ$$

$$EC \cdot 2 \sin 10^\circ = BE \cdot \frac{\sin 20^\circ}{\cos 10^\circ}$$

$$EC \cdot 2 \cdot \sin 10^\circ \cdot \cos 10^\circ = BE \cdot \sin 20^\circ$$

$$EC \cdot \sin 20^\circ = BE \cdot \sin 20^\circ$$

$$EC = BE$$

9) Знам.  $EC = BE, \angle BEC = 60^\circ \Rightarrow \triangle BCE - \text{равноб. с. о. и. и.}, \text{ м. з. м. г.}$