

N<sup>4</sup>. Duno;

$ABC \cong DEF$  then  $\angle C = \angle F$   
 $3x = 40$

$$E \in \Delta_{ABC}$$

$$\angle BAE = \angle BEA = 90^\circ$$

$$\angle CAD = \angle CDA = 10^\circ$$

$$\angle EAD = \angle EDA = 50^\circ$$

 $\Delta BEC$ : polymer ( $D_{n-n}$ ) $\triangle ABE, \triangle ACD, \triangle AED$  : not conv.

usage of general Prologism

$$B H_1 \text{ in } \triangle A H E, \text{ wegen } (\cdot) B E = \frac{B H_1}{\sin 20^\circ} = \frac{h_1}{\sin 10^\circ}$$

Terima kasih  $\angle C A D = \angle C D A = 50^\circ$

Tough  $\angle OEP = 110^\circ - \angle AED = 100^\circ$   $\angle AED = 110^\circ - 10^\circ - 10^\circ = 90^\circ$

4.  $\angle ADC = 30^\circ$ ,  $\angle EDP = 70^\circ - 30^\circ = 40^\circ$  ( $AE \cap CD = P$ ). По теореме  $\angle ADE = 30^\circ$ .

$\Delta EDP$ .  $\angle EPD = \angle CPN_2 = 30^\circ$  ( $CH_2$  - в  $\Delta ACE$ ) ? ну и  $\angle PCN_2 = 90^\circ - \angle CPN_2 = 40^\circ$ .

$$\Delta DEC = \Delta AEC : \text{no other congruence} \quad (AE = ED, AC = CD, CE = CE) \quad \text{Insufficient}$$

$$\angle ACE = \angle ECD = \frac{180^\circ - 80^\circ - 20^\circ}{2} = 40^\circ \Rightarrow \text{in } \triangle ACD$$

Triangle  $\triangle AEC$  :  $\angle ECP = 10^\circ \Rightarrow \angle ECM = 10^\circ + 40^\circ = 50^\circ$ , then  $\angle CEM = 50^\circ + 50^\circ = 100^\circ$ ,  
 then  $\angle AEC = 360^\circ - \angle AEO - \angle AED - \angle DEC - \angle CEM = 360^\circ - 80^\circ - 60^\circ - 100^\circ = 120^\circ$ .  
 Triangle  $\triangle BEC$  :  $\angle BEC = 180^\circ - \angle AEC = 60^\circ$ , and since  $BE = CE$ ,

U<sub>g</sub> h<sub>p</sub> Δ h c n<sub>2</sub> ⇒ c n<sub>2</sub> =  $\frac{\Delta h}{2}$  ,  $\text{für } (2) \text{ CE: } \frac{c n_2}{\cos 40^\circ} = \frac{\Delta h}{2 \sin 40^\circ} = \text{wg}$

 $\Delta \in CM_2$  .

$\Rightarrow$  In  $\triangle AEC$ :  $\frac{AE}{\sin 10^\circ} = \frac{AC}{\sin 140^\circ}$ ,  $\therefore AE = 2 \text{ cm}$

$$\frac{2 H_0 \epsilon}{\sin 10^\circ} = \frac{AC}{\sin 100^\circ} \Rightarrow H_0 \epsilon = \frac{AC \sin 10^\circ}{2 \sin 100^\circ}$$

Forgetting (1)  $\Rightarrow \eta \approx \frac{16.5 \times 10^7}{2 \times 10^6} \approx 8.25$

$$= \frac{AC \cdot \sin 10^\circ}{2 \cdot \sin 40^\circ \cdot (\sin 30^\circ - 10^\circ)} = \frac{AC \cdot \sin 10^\circ}{2 \cdot \sin 40^\circ \cdot \sin 20^\circ} \quad (2) \quad (2) = (3) \Rightarrow BE = CE$$

Order: 1, 2, 3, 4

$$D_{0R} = 60.$$
