

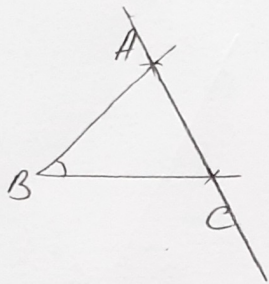
Testul 2

1. 180°

2. semidrepte suprapuse (identice)

3. 90°

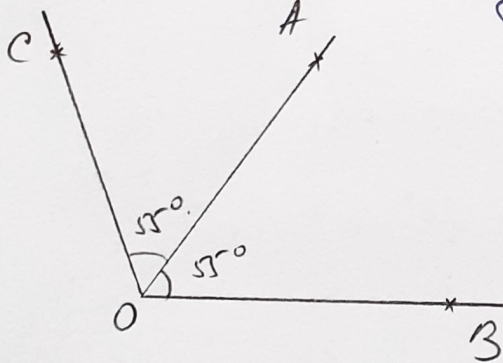
4. $A, B, C \in \text{r}ABC$
 $A, C \in AC$ $\left| \Rightarrow \text{r}ABC \cap AC = \{A; C\}$



5. $78^\circ - 60^\circ 30' = 77^\circ 60' - 60^\circ 30' = 17^\circ 30'$

6. $\text{r}AOB = 55^\circ$

Fi C simetricul lui B față de A



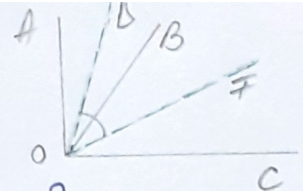
7. Fi x° suplementul unghiului de $35^\circ 16'$ \Rightarrow

$$\Rightarrow x^\circ + 35^\circ 16' = 180^\circ \Leftrightarrow x^\circ = 180^\circ - 35^\circ 16'$$

$$x^\circ = 179^\circ 60' - 35^\circ 16'$$

$$x^\circ = 144^\circ 44'$$

8. $\angle AOB + \angle BOC = 90^\circ$



$$\left. \begin{array}{l} \text{[OA bis. } \angle AOB \Rightarrow \angle AOB = \angle BOB = \angle AOB : 2 \\ \text{[OF bis } \angle BOC \Rightarrow \angle BOF = \angle FOC = \angle BOC : 2 \end{array} \right\} \Rightarrow$$

$$\Rightarrow \angle BOF = \angle BOB + \angle BOF = \angle AOB : 2 + \angle BOC : 2 = (\angle AOB + \angle BOC) : 2 = 90^\circ : 2 = 45^\circ$$

9. $\angle AOB + \angle BOC = 180^\circ$

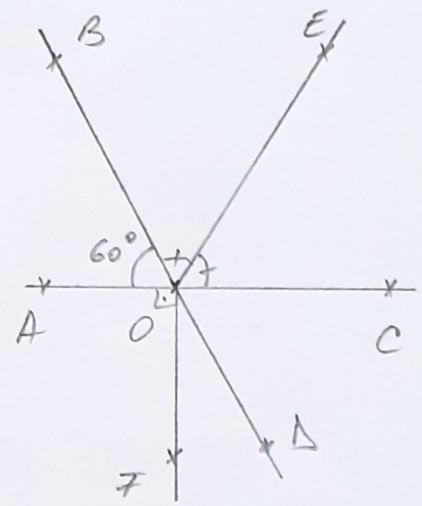
$\angle AOB = 60^\circ$

[OE bis $\angle BOC$

[OD opusă [OB

[OF în același semiplan cu OD

$\angle AOF = 90^\circ$



a. $\angle BOE, \angle DOF, \angle EOF = ?$

b. [OC bis $\angle EOD$

$$\left. \begin{array}{l} \text{[OE bis } \angle BOC \Rightarrow \angle BOE = \angle EOC = \angle BOC : 2 \\ \angle AOB + \angle BOC = 180^\circ \\ \angle AOB = 60^\circ \end{array} \right\} \Rightarrow \angle BOC = 180^\circ - 60^\circ = 120^\circ$$

$\Rightarrow \angle BOE = \angle EOC = 120^\circ : 2 = 60^\circ$

$$\left. \begin{array}{l} \text{[OD ni [OB opusă} \Rightarrow \angle BOD = 180^\circ \\ \angle AOF = 90^\circ \\ \angle AOB = 60^\circ \end{array} \right\} \Rightarrow \angle DOF = \angle BOD - \angle AOB - \angle AOF = 180^\circ - 60^\circ - 90^\circ = 30^\circ$$

$\angle EOF = \angle EOC + \angle COF = 60^\circ + 90^\circ = 150^\circ \Rightarrow \angle DOF = 30^\circ$

$\angle COF = \angle AOC - \angle AOF = 180^\circ - 90^\circ = 90^\circ$

b. $\angle COD = \angle BOD - \angle BOC = 180^\circ - 120^\circ = 60^\circ$
 $\angle EOC = 60^\circ \Rightarrow \angle COD = \angle EOC = 60^\circ$

\Rightarrow [OC bisectora $\angle EOD$