

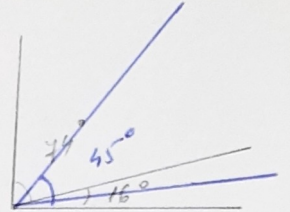
# Test de autoevaluare

1.  $90^\circ - 80^\circ = 10^\circ$

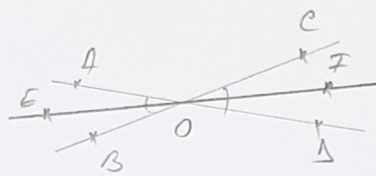
R: a)  $10^\circ$  nu  $6^\circ$

2.  $74^\circ : 2 + 16^\circ : 2 = (74^\circ + 16^\circ) : 2 = 90^\circ : 2 = 45^\circ$

R:  $\Delta$ )  $45^\circ$



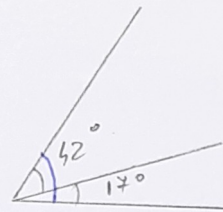
3. R: c) alungit



[OF bis + COA  
[OE bis + AOB] =>  
=> \* EOF into \* alungit

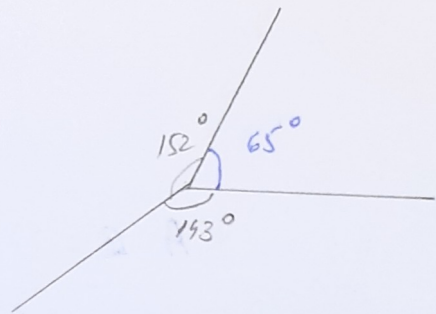
4.  $42^\circ + 17^\circ = 59^\circ$

R: u)  $59^\circ$

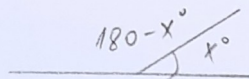


5.  $360^\circ - (152^\circ + 143^\circ) = 360^\circ - 295^\circ = 65^\circ$

R: t)  $65^\circ$



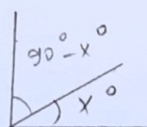
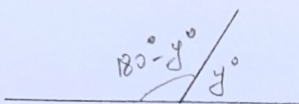
6.



$(180 - y) + (180 - x) = 148^\circ \Leftrightarrow 180 - y + 180 - x = 148^\circ \Leftrightarrow x + y = 360 - 148 \Leftrightarrow$   
 $\Leftrightarrow x + y = 212^\circ$

R: i)  $212^\circ$

7.



$(180 - y) - (90 - x) = 137^\circ \Leftrightarrow$   
 $\Leftrightarrow 180 - y - 90 + x = 137^\circ \Leftrightarrow$

$\Leftrightarrow 90 + x - y = 137^\circ \Leftrightarrow x - y = 137 - 90 \Leftrightarrow x - y = 47^\circ$

R: t)  $47^\circ$

1	2	3	4	5	6	7
a	λ	c	u	z	i	z

# Testul 1

- I.
1. unghiuri suplementare
  2. unghiuri opuse la vârf
  3. unghiuri egale / congruente

- II.
1. b) opuse la vârf
  2.  $\sphericalangle BO\Delta$  este suplimentul  $\sphericalangle AOB$  (sau  $\sphericalangle AOC$  este suplimentul  $\sphericalangle AOB$ )

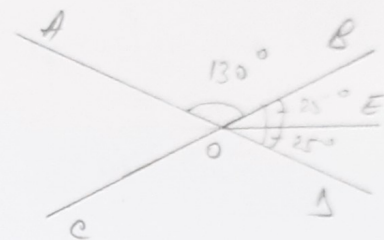
$$\sphericalangle BO\Delta = 180^\circ - 130^\circ = 50^\circ$$

R: a)  $50^\circ$

3.  $OE$  bis  $\sphericalangle BO\Delta$

$$\sphericalangle EO\Delta = \sphericalangle BO\Delta : 2 = 50^\circ : 2 = 25^\circ$$

R: c)  $25^\circ$



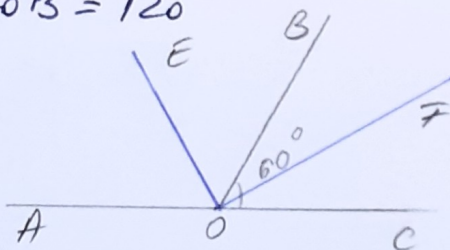
- III.
1. a)  $\sphericalangle AOB + \sphericalangle BOC = 180^\circ$   
 $\sphericalangle AOB = 2 \cdot \sphericalangle BOC$   $\Rightarrow$  2.  $\sphericalangle BOC + \sphericalangle BOC = 180^\circ$   
 3.  $\sphericalangle BOC = 180^\circ / 3$   
 $\sphericalangle BOC = 60^\circ$

$$60^\circ + \sphericalangle AOB = 180^\circ$$

$$\sphericalangle AOB = 180^\circ - 60^\circ$$

$$\sphericalangle AOB = 120^\circ$$

b)



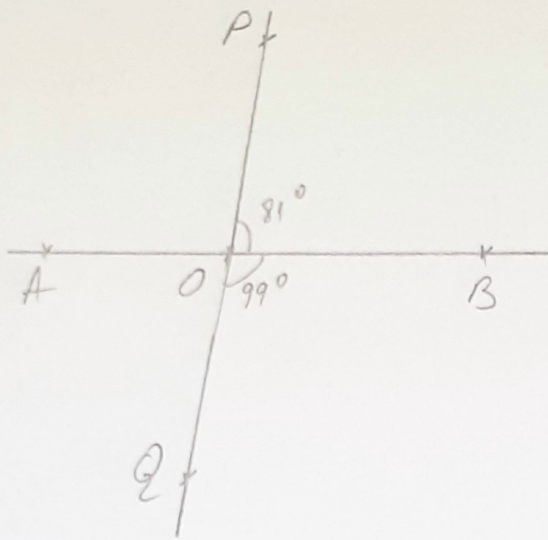
$$[OF \text{ bis } \sphericalangle BOC \Rightarrow \sphericalangle BOF = \sphericalangle FOC$$

$$[OE \text{ bis } \sphericalangle AOB \Rightarrow \sphericalangle AOE = \sphericalangle EOB$$

$$\sphericalangle EOF = \sphericalangle EOB + \sphericalangle BOF = \sphericalangle BOC : 2 + \sphericalangle AOB : 2 = 60^\circ : 2 + 120^\circ : 2 = 30^\circ + 60^\circ = 90^\circ$$

$$\sphericalangle EOF = 90^\circ$$

2.



$$\angle POB = 81^\circ$$

$$\angle BOQ = 99^\circ$$

$$\begin{aligned} \angle AOQ &= \angle AOB - \angle BOQ = \\ &= 180^\circ - 99^\circ = 81^\circ \end{aligned}$$

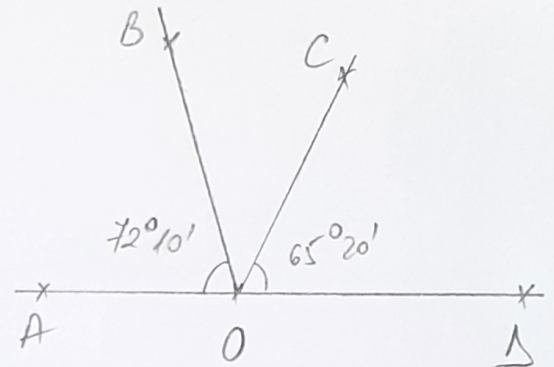
3.  $\angle AOB$  și  $\angle BOC$  =  $\angle$  adiacente $\angle BOC$  și  $\angle COA$  =  $\angle$  adiacente

$$\angle AOB = 72^\circ 10'$$

$$\angle COA = 65^\circ 20'$$

A, O, A - coliniare

$$\angle BOC = ?$$



$$\begin{aligned} \angle BOC &= \angle AOA' - (\angle AOB + \angle COA) = 180^\circ - (72^\circ 10' + 65^\circ 20') = \\ &= 180^\circ - 137^\circ 30' = 179^\circ 60' - 137^\circ 30' = 42^\circ 30' \end{aligned}$$