

*Решение задач
на готовых чертежах.*

Окружность.

*Центральные и
вписанные углы.*

*Геометрия.
8 класс.*

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МОУ СОШ №256 г.Фокино*



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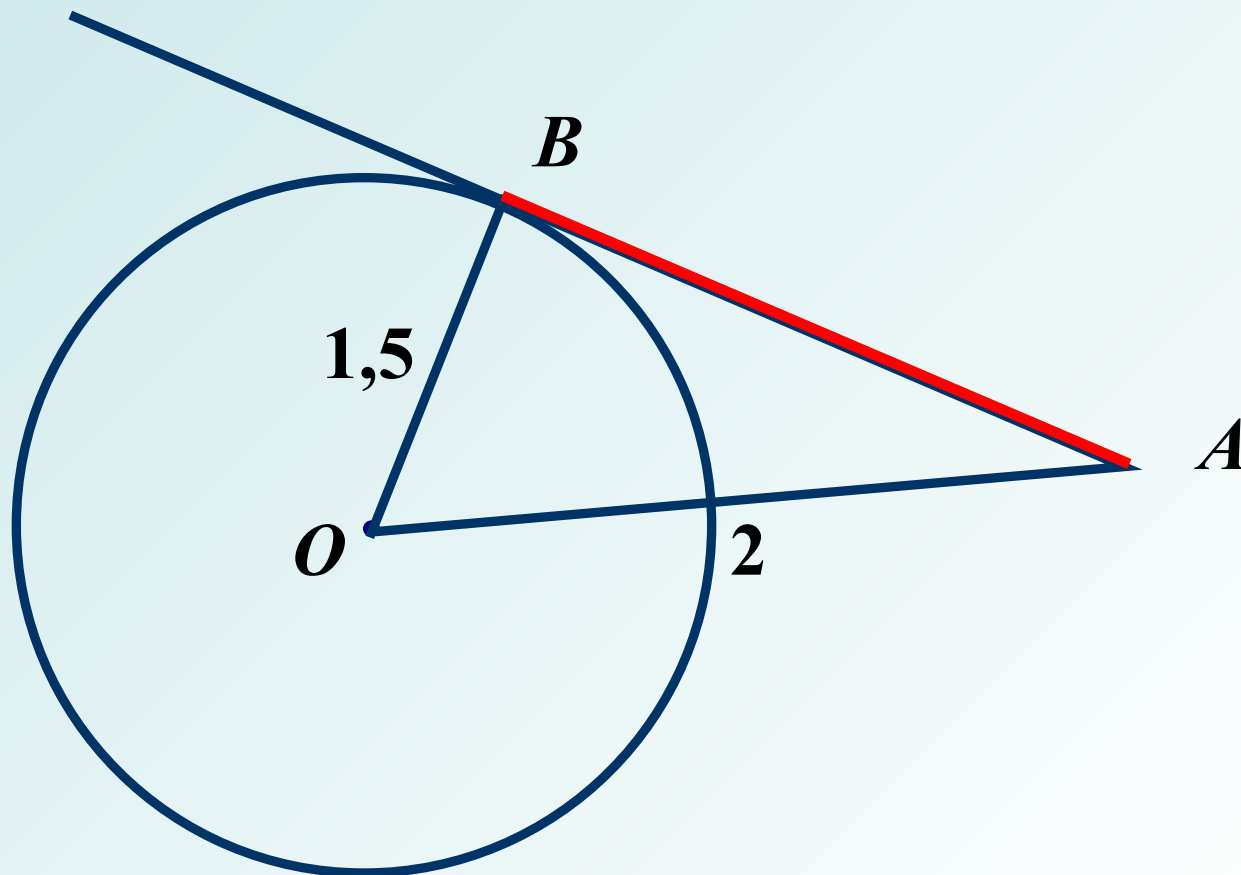
1.

Дано:

$\hat{I} \in \hat{O} . (\hat{I} , r), \hat{A} \hat{A} - \text{êàñàòàëüíà } \ddot{y}$
 $\hat{I} \hat{A} = 2\tilde{n}\hat{i} , r = 1,5\tilde{n}\hat{i}$

Найти:

$\hat{A} \hat{A}$



2.

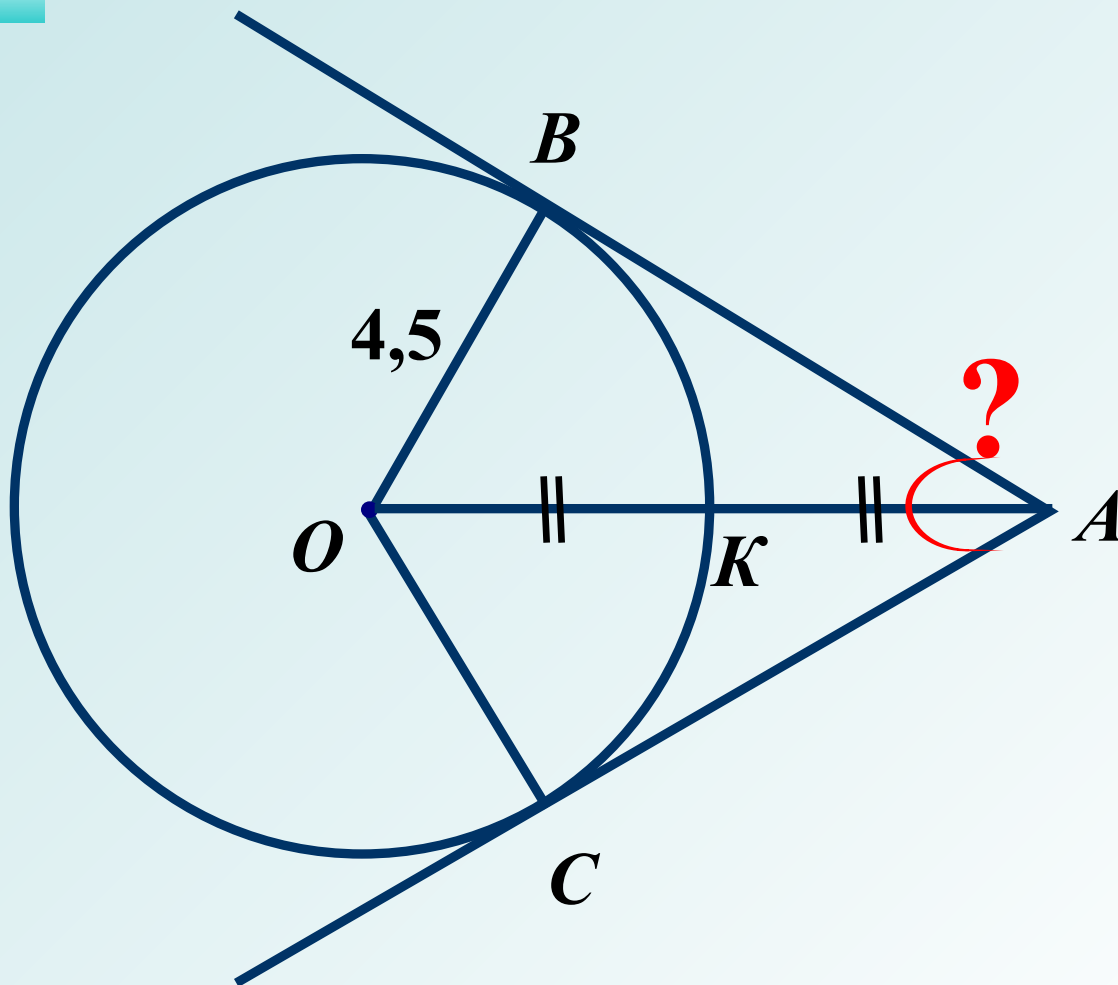
Дано:

$\text{Центр } (I, r)$

AB, AC – касательные к

Найти:

$\angle BAC$



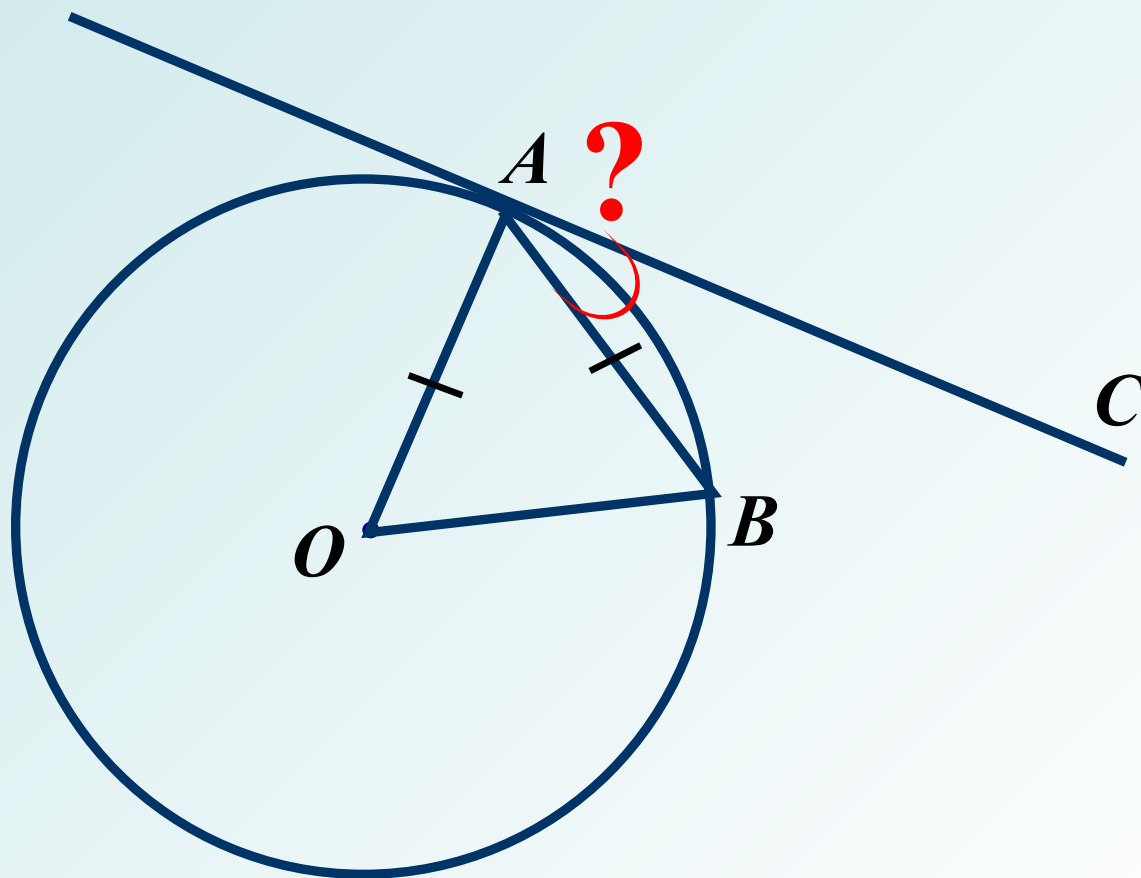
3.

Дано:

$\hat{I} \in \hat{O} . (\hat{I} , \hat{I} \hat{A})$
 $\hat{A} \hat{N} - \text{тangent to the circle at } A$

Найти:

$\angle \hat{A} \hat{A} \hat{N}$



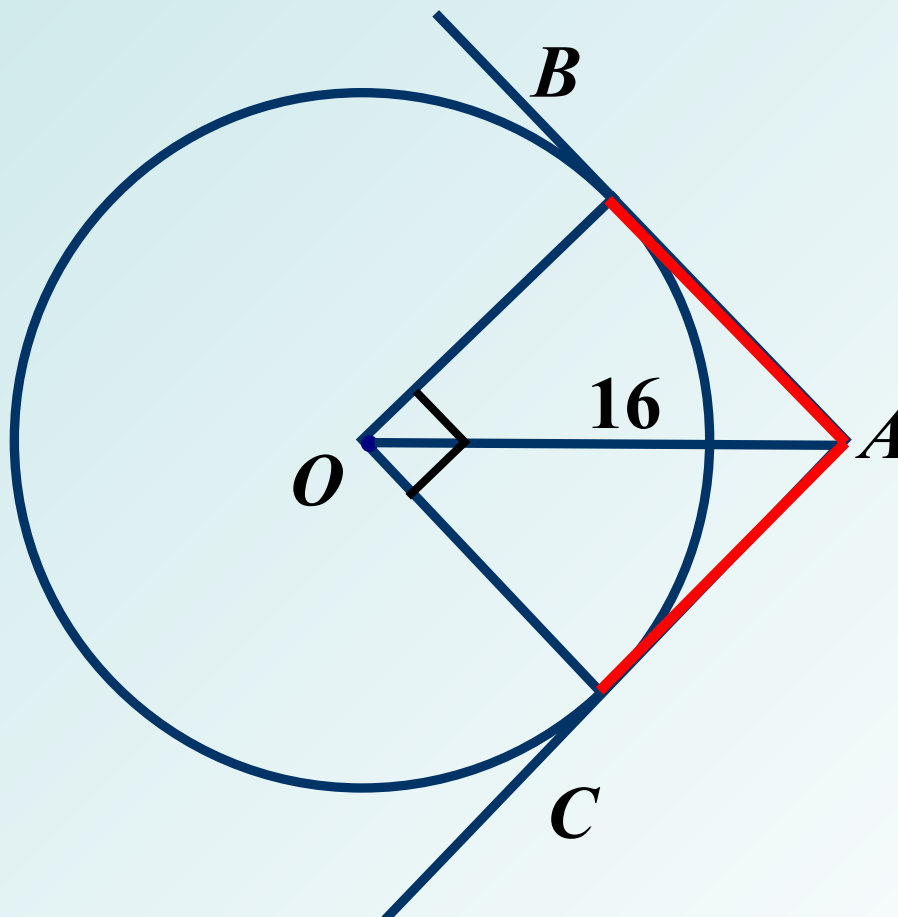
4.

Дано:

$\angle AOB = 16^\circ$, $OA = 16$
 AB, AC – касательные к дуге BC

Найти:

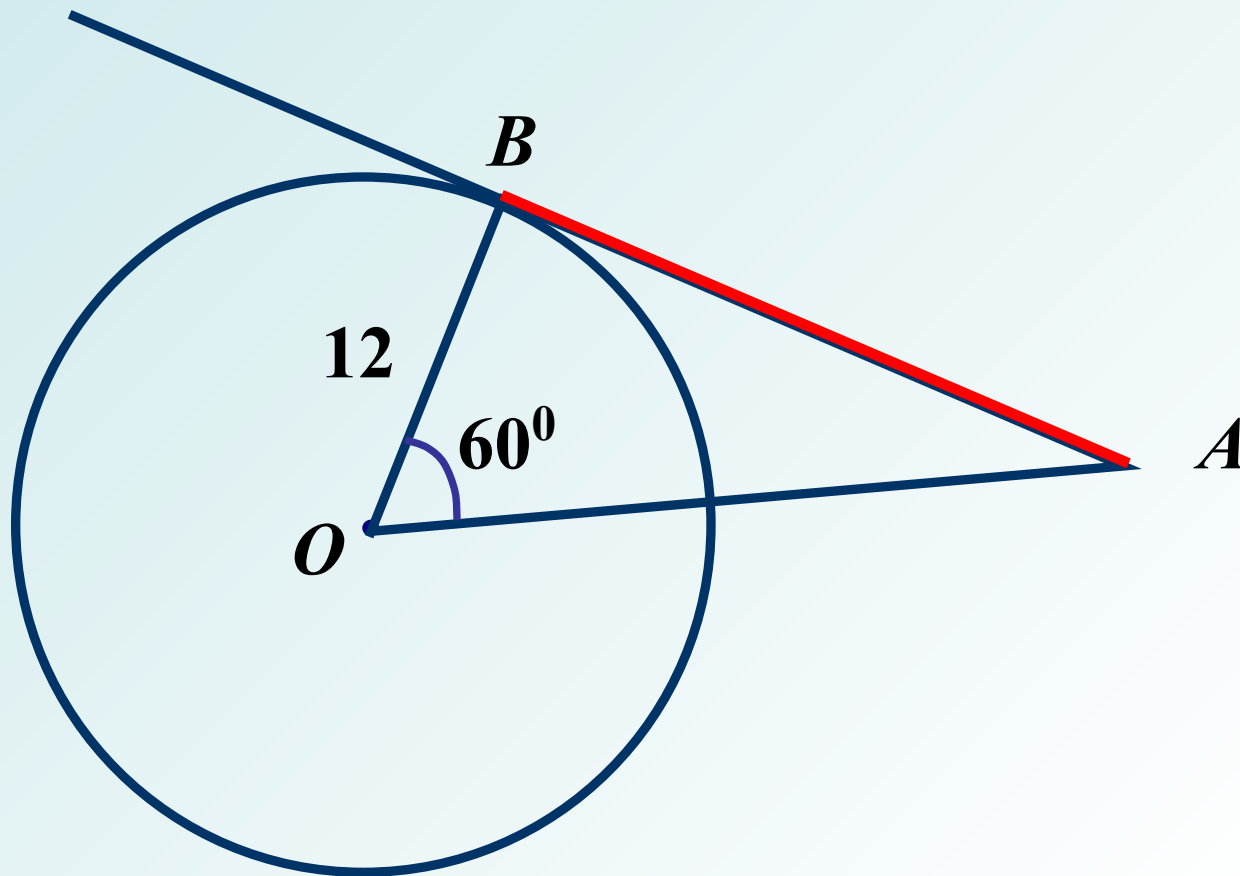
$\angle A$, $\angle C$



5.

Дано: $\hat{I} \in \hat{O} . (\hat{I} , \hat{I} \hat{A}) ,$
 $\hat{A} \hat{A} - \text{еàñàòåüüà ÿ}$

Найти: $\hat{A} \hat{A}$



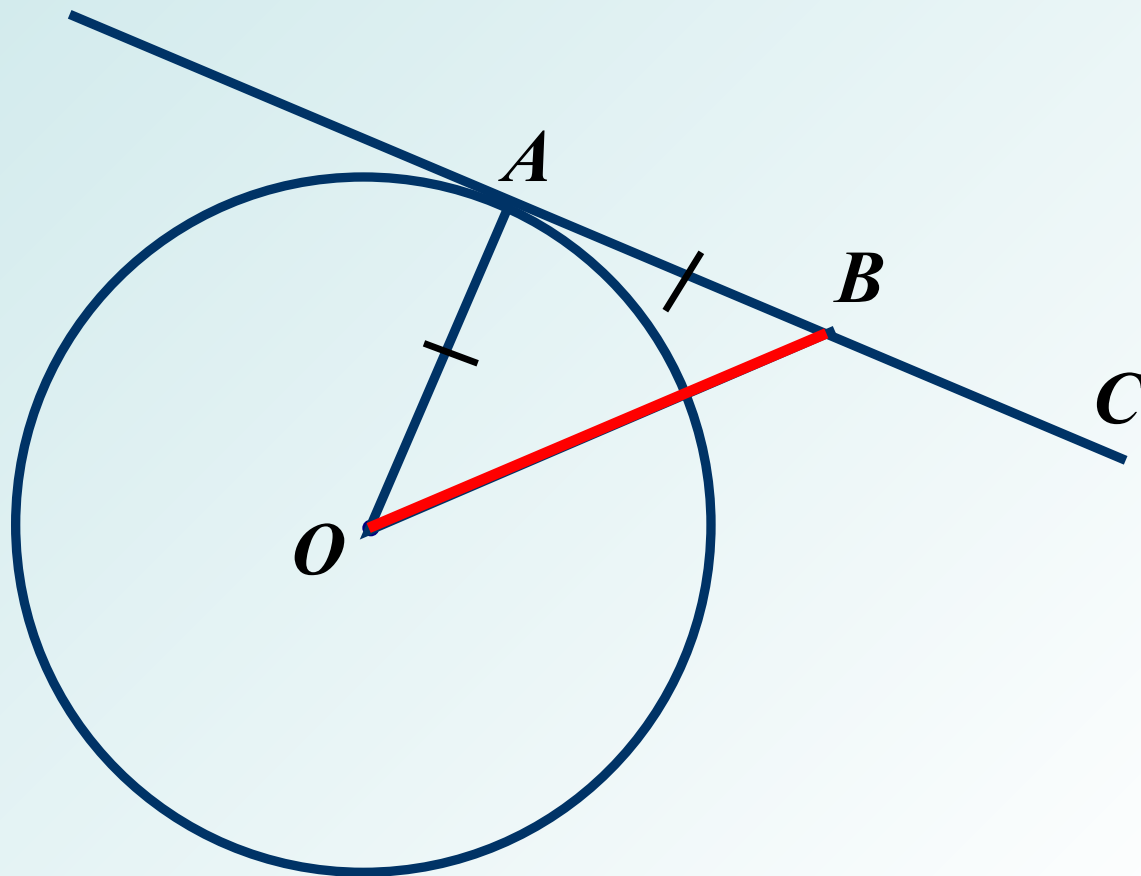
6.

Дано:

$\hat{I} \hat{e} \hat{o} .(\hat{I} , R), R = 5$
 $\hat{A} \hat{A} - \hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{a} \hat{y}$

Найти:

$O\hat{A}$



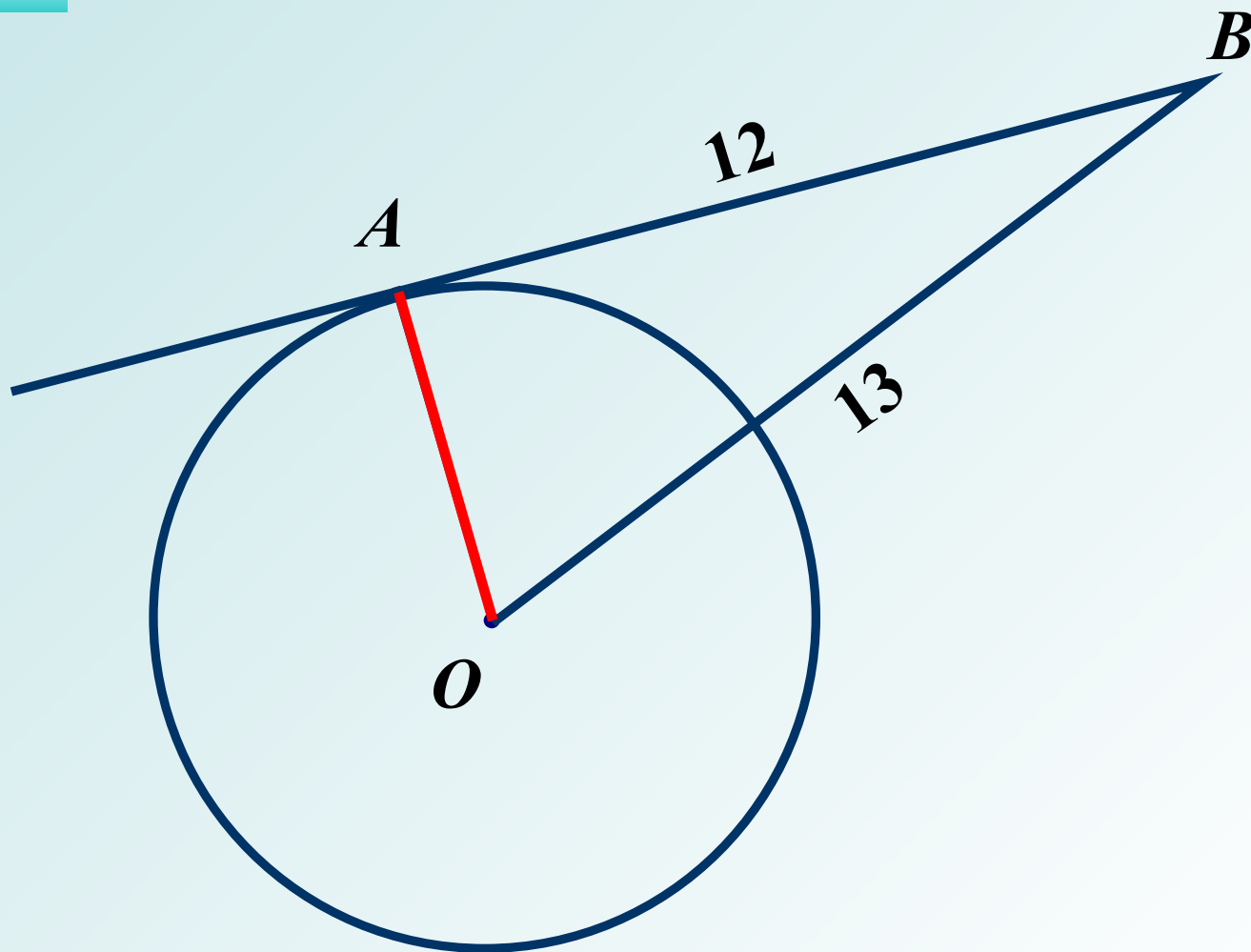
7.

Дано:

$\hat{I} \hat{e} \hat{o} . (\hat{I} , R)$
 $\hat{A} \hat{A} - \hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{a} \hat{y}$

Найти:

$R \hat{i} \hat{e} \hat{o} \hat{o} \hat{a} \hat{i} \hat{i} \hat{n} \hat{o} \hat{e}$



8.

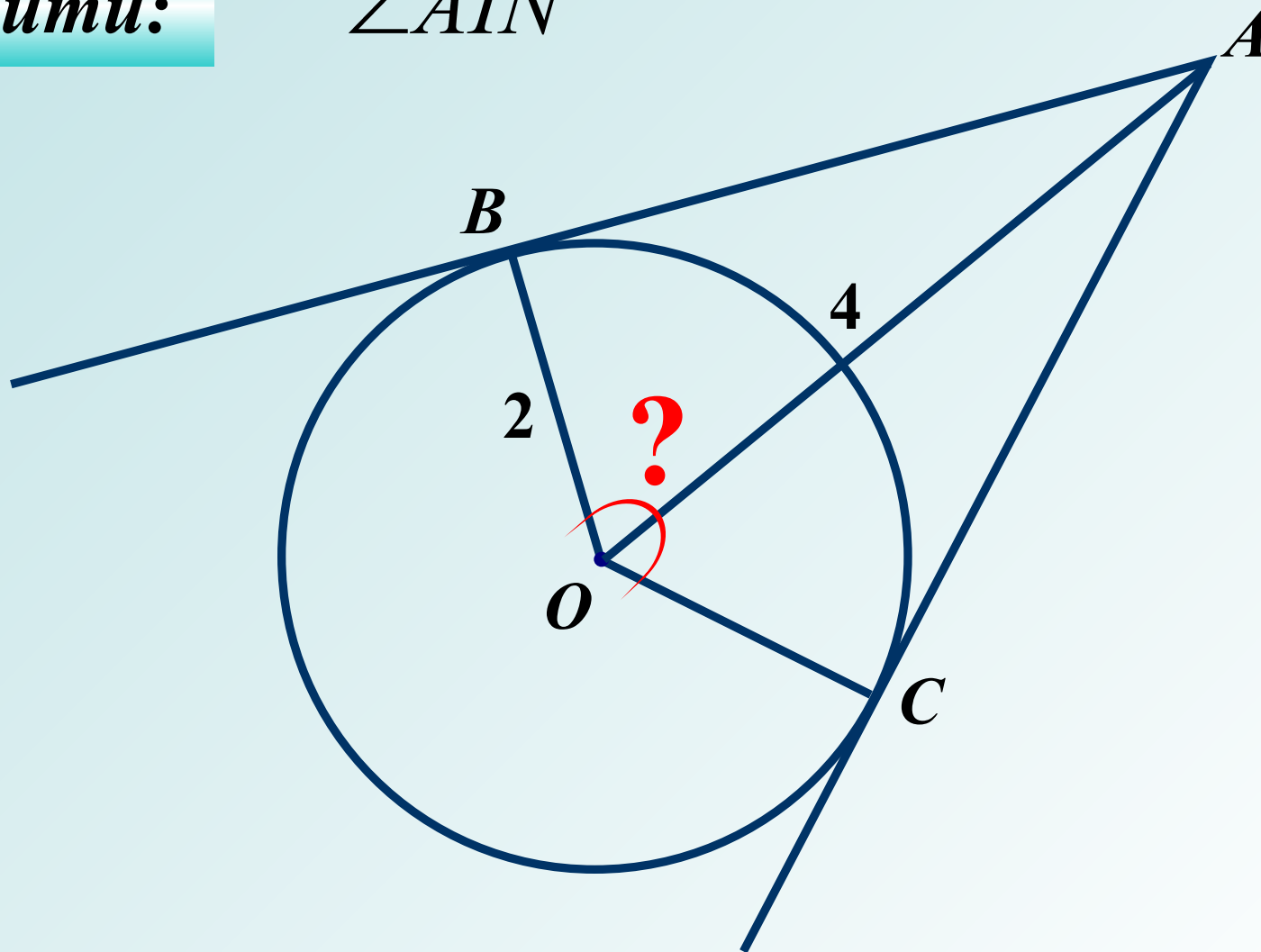
Дано:

$\hat{I} \in \delta .(\hat{I} , \hat{I} \hat{A})$,

$\hat{A} \hat{A} , \hat{A} \hat{N} - \text{éàñàòàëüüû à}$

Найти:

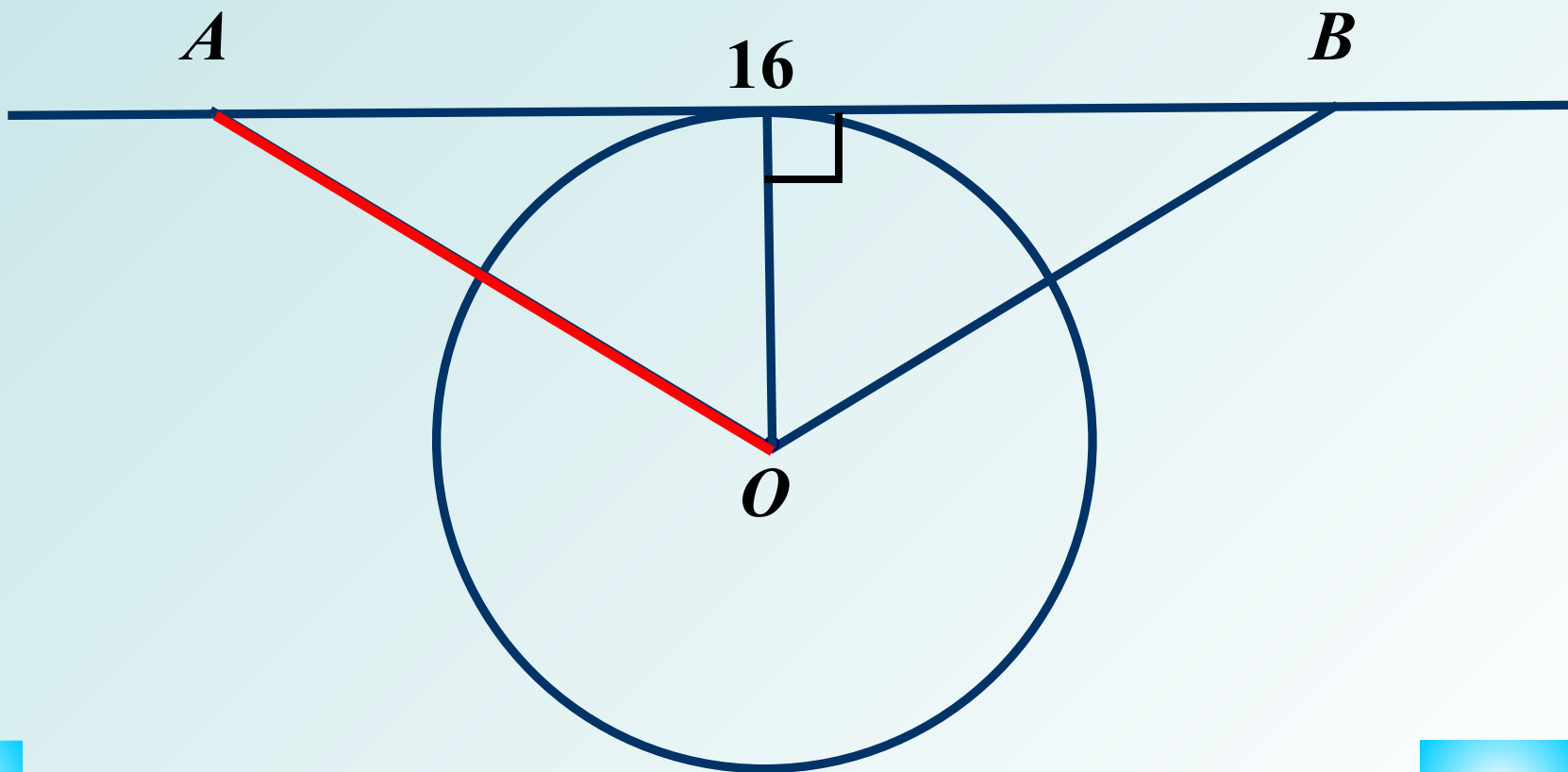
$\angle \hat{A} \hat{I} \hat{N}$



9.

Дано: $\odot (O, R), R = 6$
 AB — хорда, $OA = OB$

Найти: OA



Доп.

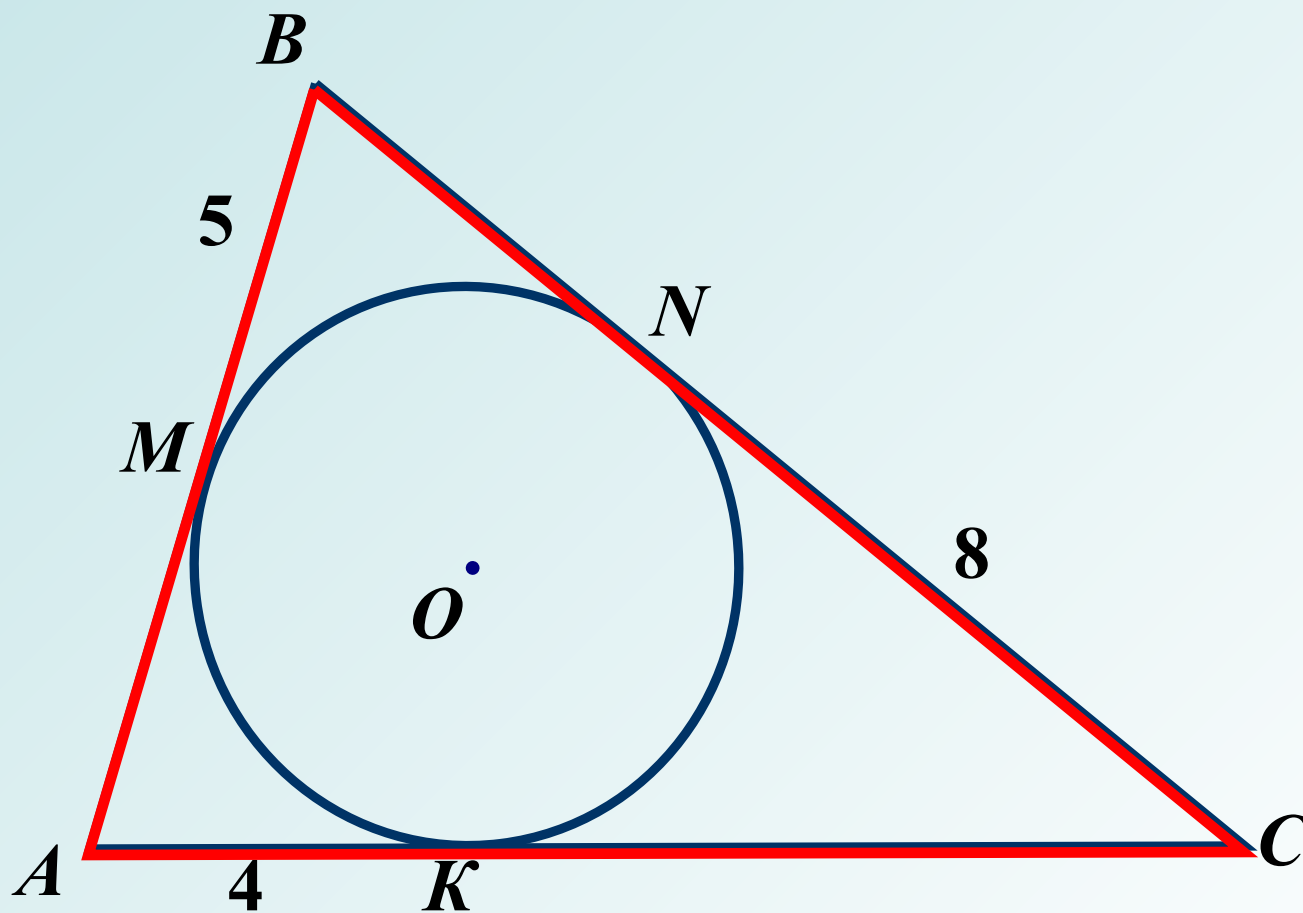
10.

Дано:

I, N, K – о'тëê ãñàíëý

Найти:

P_{ABC}



11.

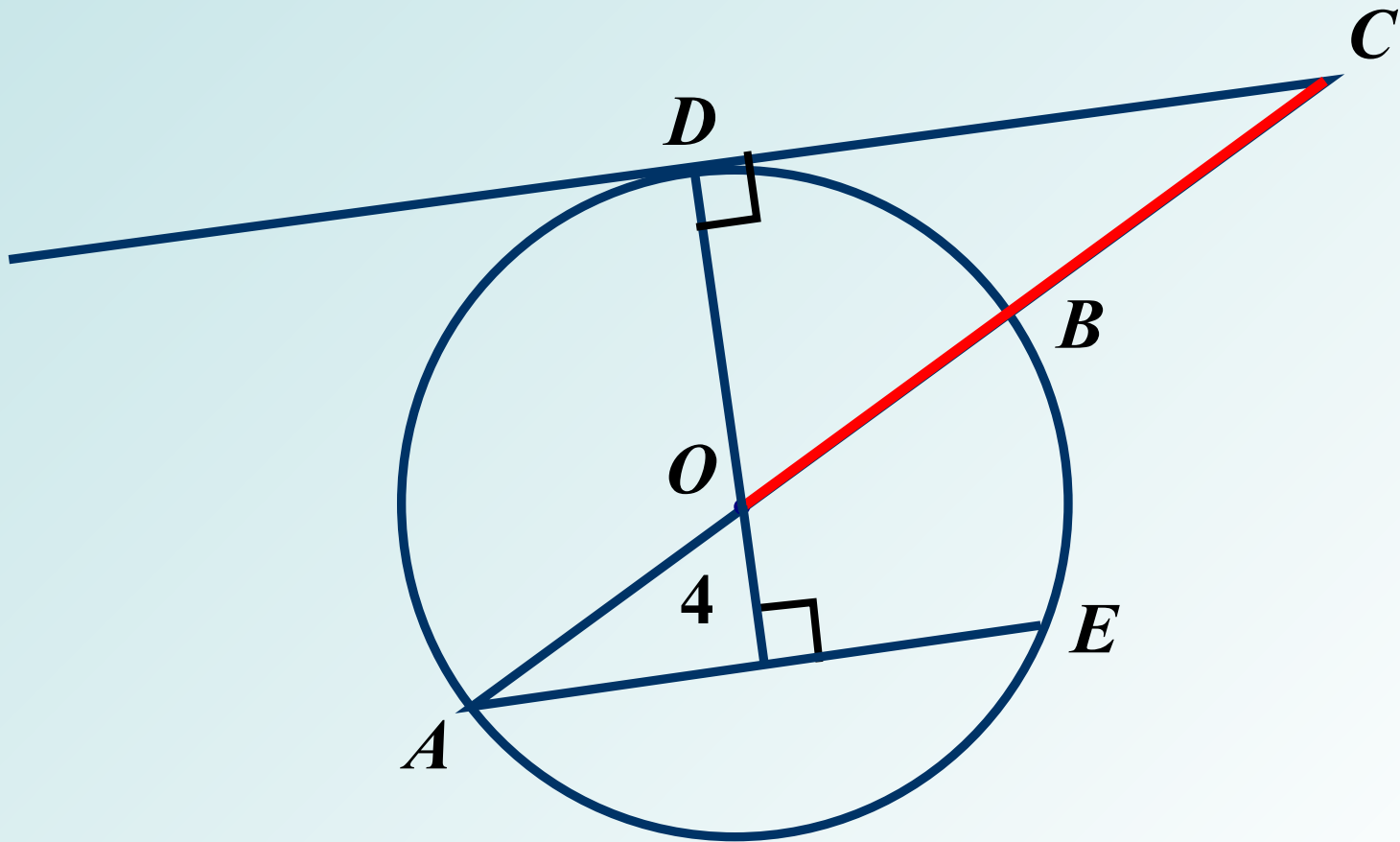
Дано:

$$\hat{I} \in \partial \cdot (\hat{I}^-, \hat{I}^+), \quad \hat{A} \hat{A} = 10$$

$$CD - \hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{u} \hat{i} \hat{a} \hat{y}, \quad \hat{A} E \Pi CD$$

Найму:

OC



Доп.

12.

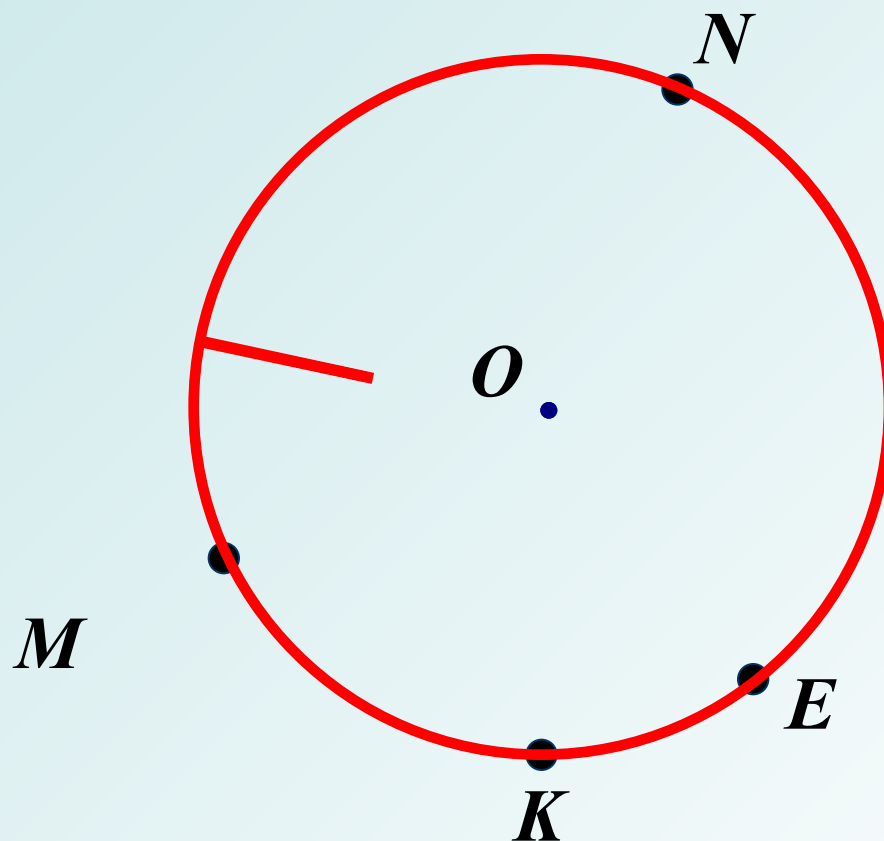
Дано:

$\hat{I} \hat{e} \hat{o} . (\hat{I} , R)$

$\cup \hat{I} \hat{E} \hat{A} < \cup MNE \hat{a} 2 \hat{o} \hat{a} \hat{c} \hat{a}$

Найти:

$\cup \hat{I} \hat{E} \hat{A} , \cup MNE$



13.

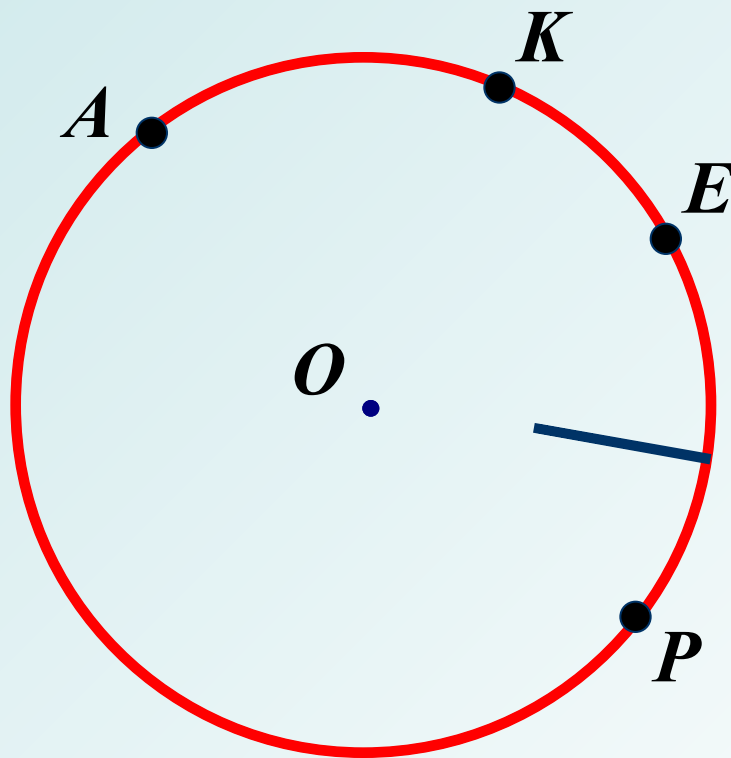
Дано:

$\hat{I} \hat{e} \hat{o} . (\hat{I} , R)$

$\cup \hat{A} \hat{E} \hat{A} < \cup \hat{A} \hat{D} \hat{E} \text{ íà } 140^0$

Найти:

$\cup \hat{A} \hat{D} \hat{E}$



14.

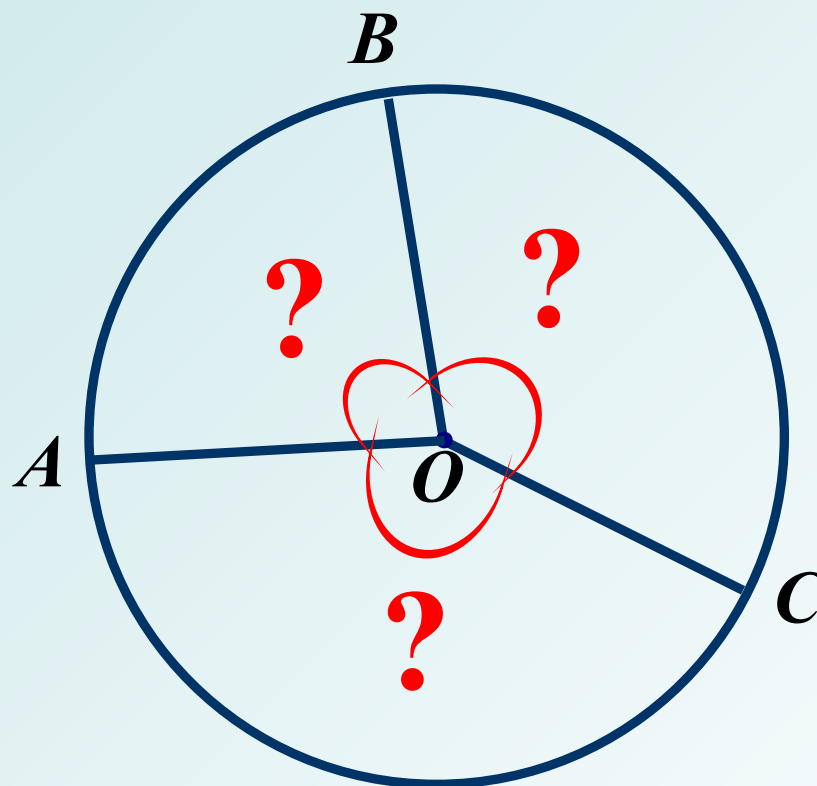
Дано:

$\hat{I} \in \partial (I, R)$

$$\cup \hat{A} \hat{A} : \cup \hat{A} \hat{N} : \cup \hat{A} \hat{N} = 2 : 3 : 4$$

Найти:

$$\angle \hat{A} \hat{I} \hat{A}, \angle \hat{A} \hat{I} \hat{N}, \angle \hat{A} \hat{I} \hat{N}$$

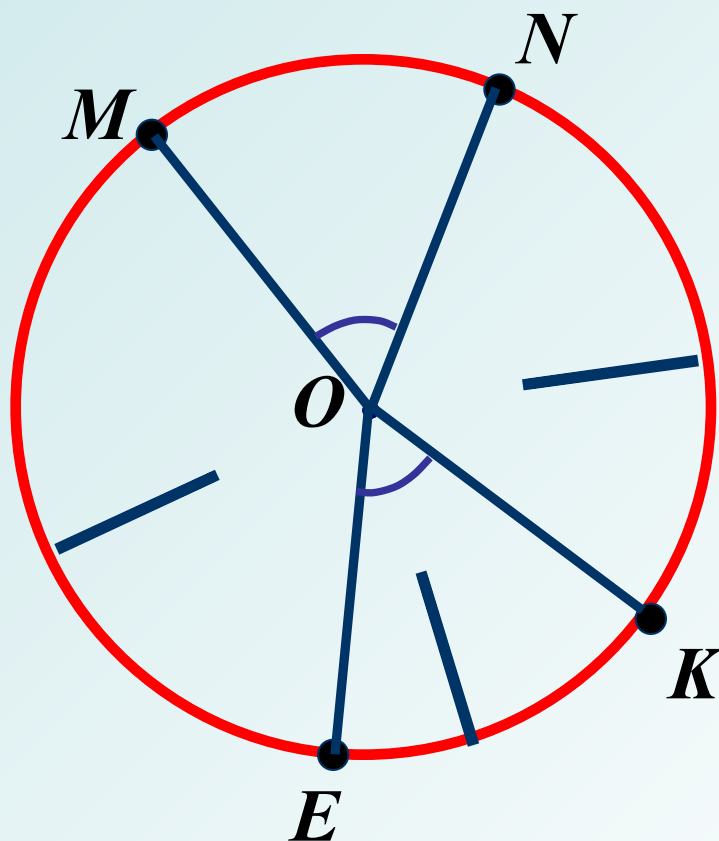


15.

Дано: $\hat{I} \hat{e} \hat{o} . (\hat{I} , R)$

$$\angle \hat{I} \hat{I} \hat{N} : \angle \hat{N} \hat{I} \hat{K} : \angle \hat{M} \hat{I} \hat{E} = 3 : 4 : 5$$

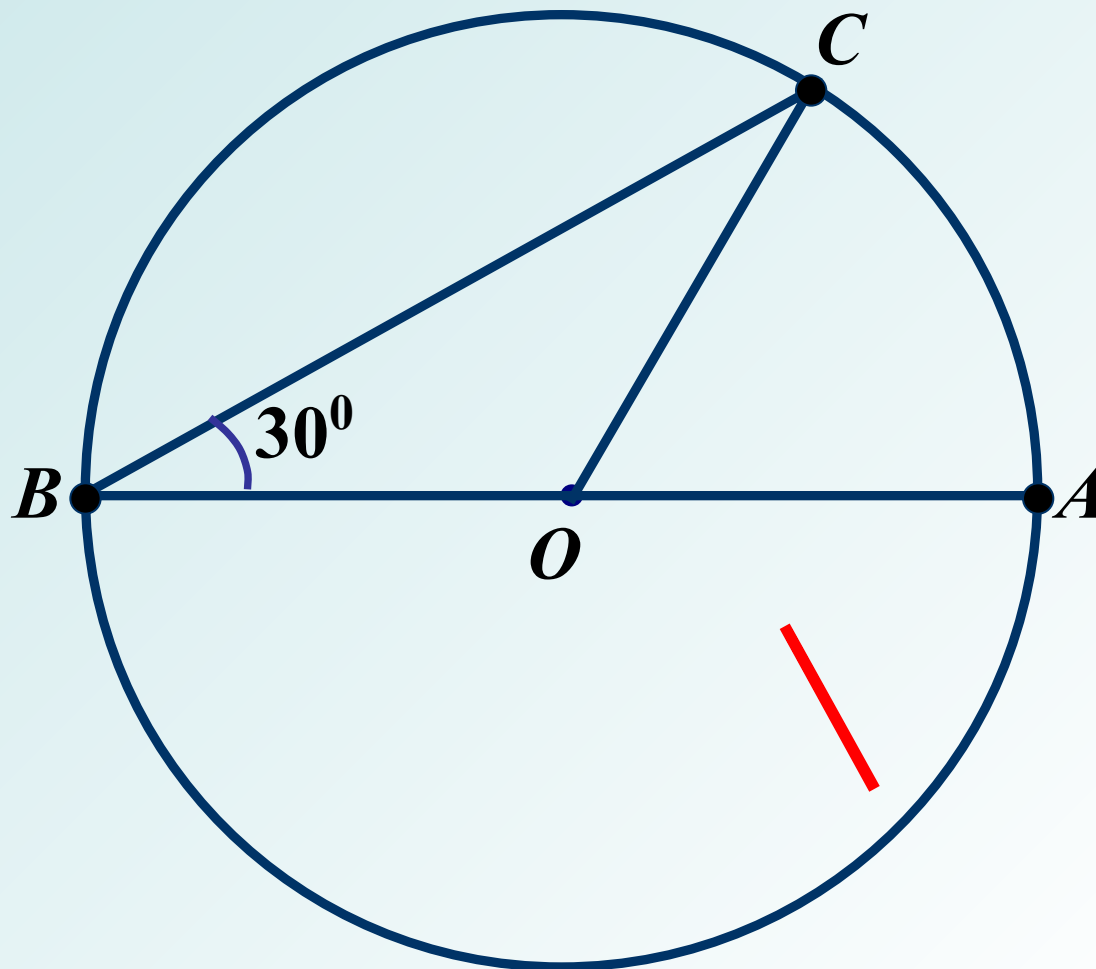
Найти: $\cup \hat{I} \hat{A} , \cup NK, \cup KE$



16.

Дано: $\hat{I} \hat{e} \hat{o} . (\hat{I} , R)$

Найти: $\cup \hat{A} \tilde{N}$

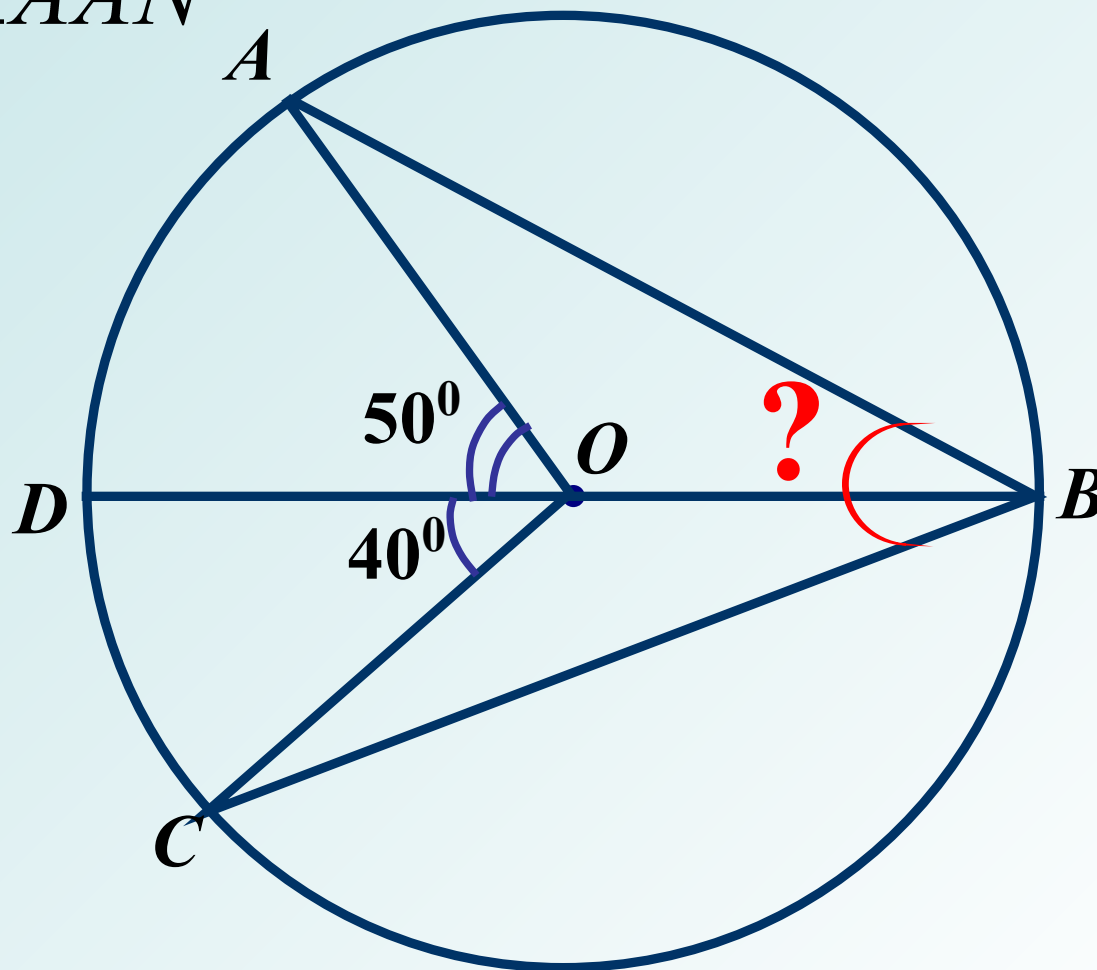


17.

Дано: $\hat{I} \hat{e} \hat{o} . (\hat{I} , R)$

Найти:

$\angle A \hat{A} \tilde{N}$



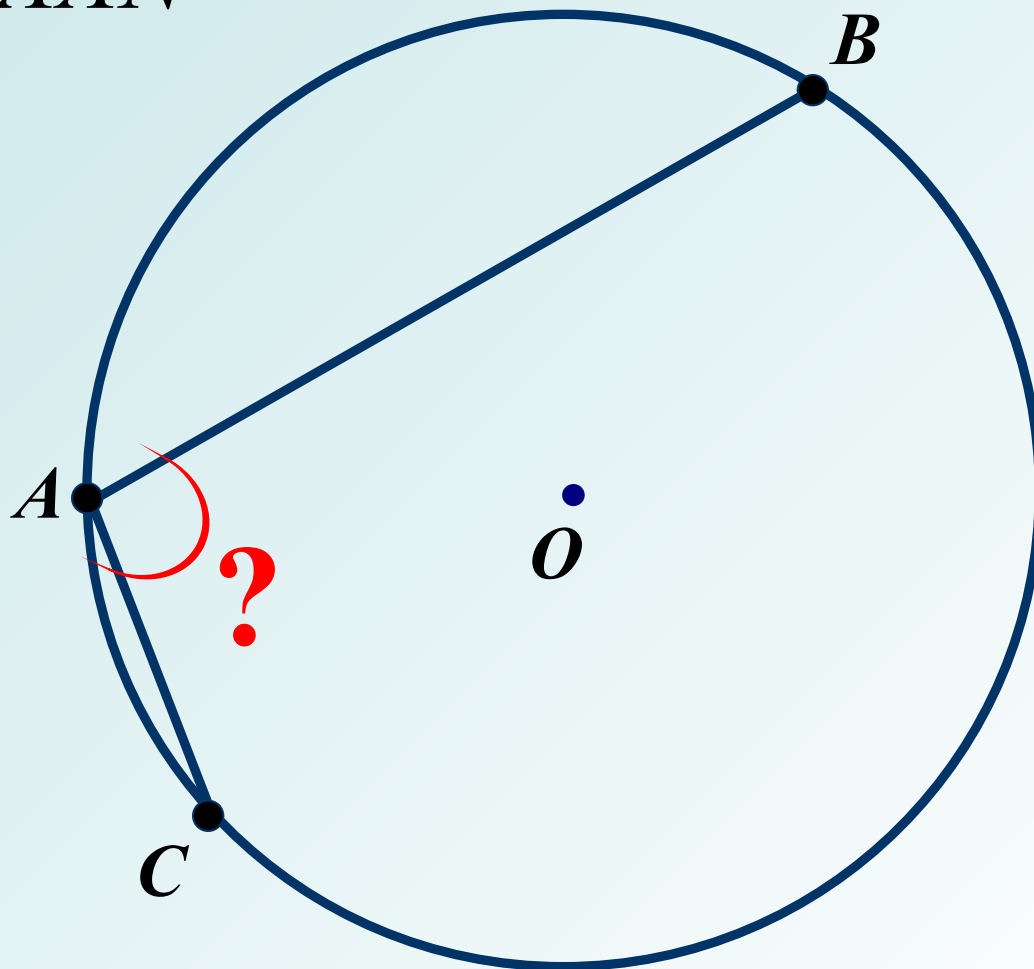
18.

Дано:

$\widehat{I\epsilon\delta} \cdot (\hat{I}, R)$
 $\cup \hat{A}\tilde{N} = 43^0, \cup \hat{A}\hat{A} = 115^0$

Найти:

$\angle \hat{A}\hat{A}\tilde{N}$



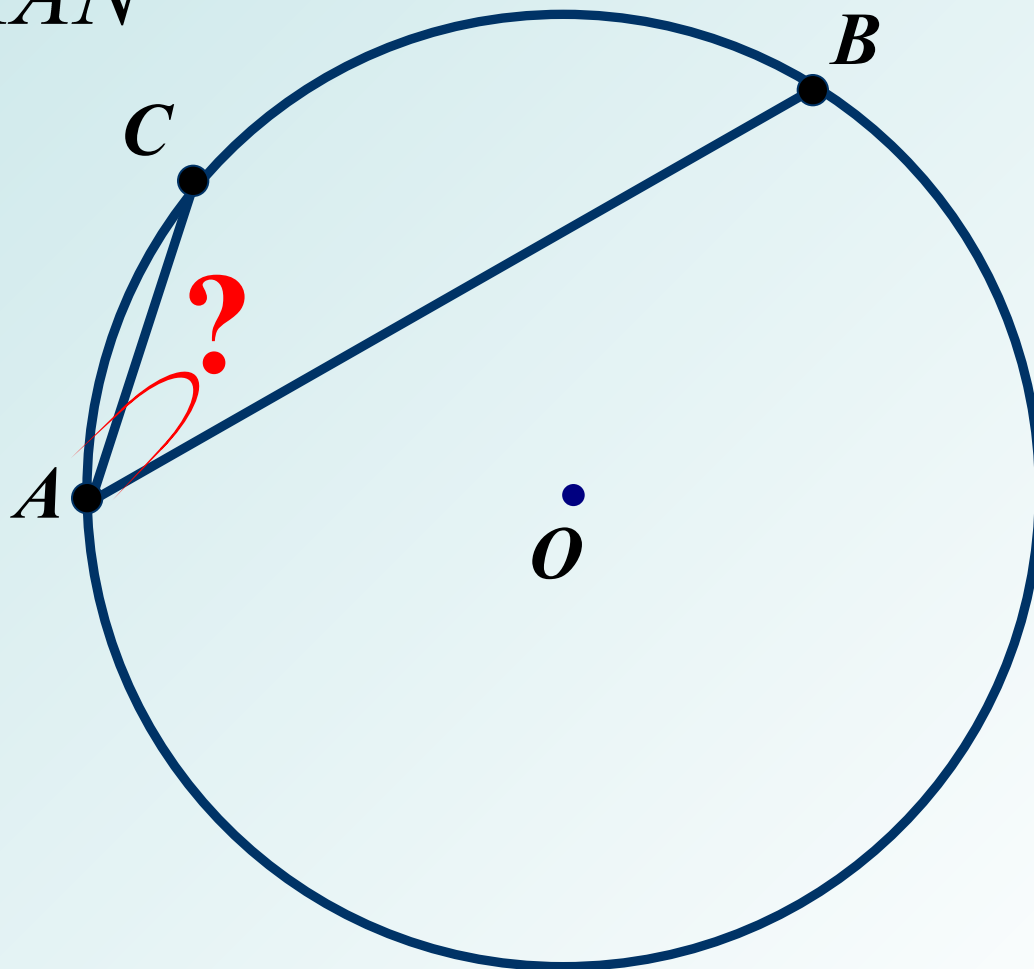
19.

Дано:

$$\widehat{I\epsilon\delta} \cdot (\hat{I}, R) \cup \hat{A}\tilde{N} = 43^{\circ}, \cup \hat{A}\hat{A} = 115^{\circ}$$

Найти:

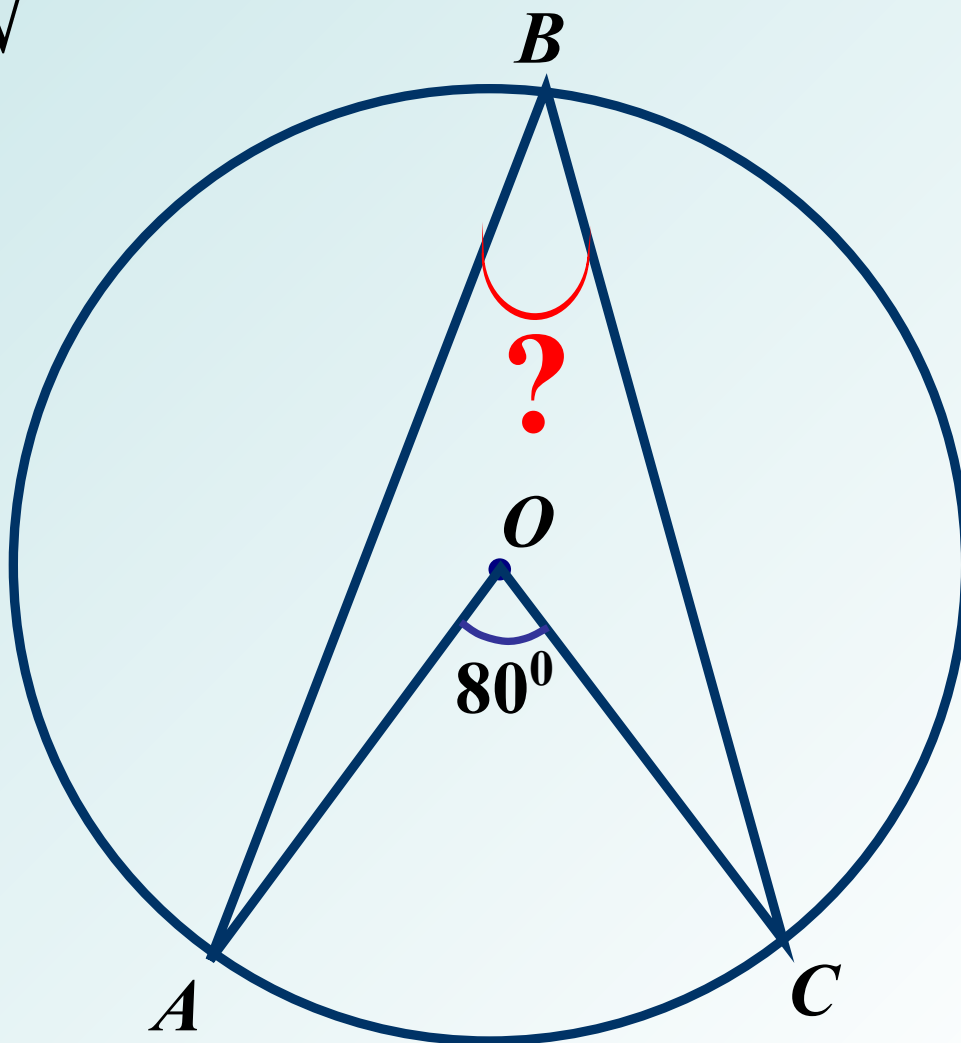
$$\angle \hat{A}\hat{A}\tilde{N}$$



20.

Дано: $\triangle ABC$ вписан в (O, R)

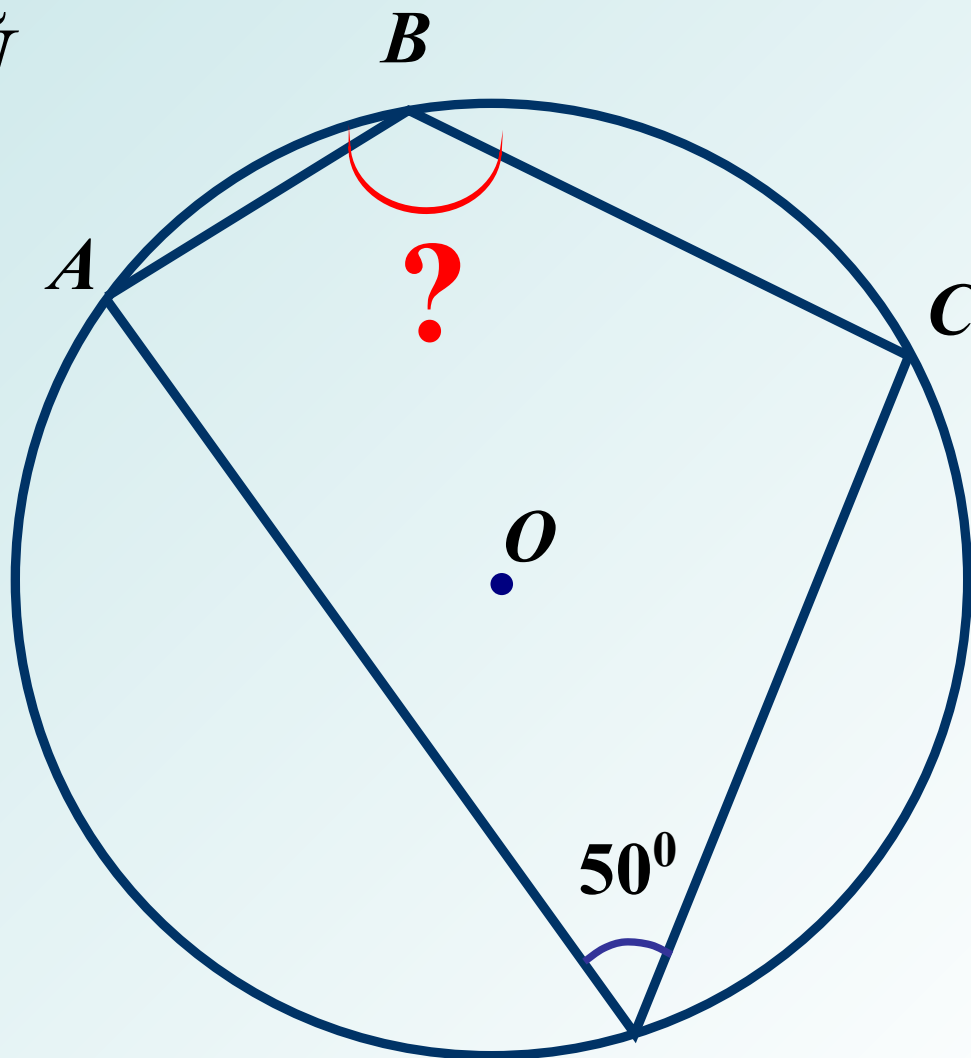
Найти: $\angle AOC$



21.

Дано: $\hat{I} \in \delta .(\hat{I} , R)$

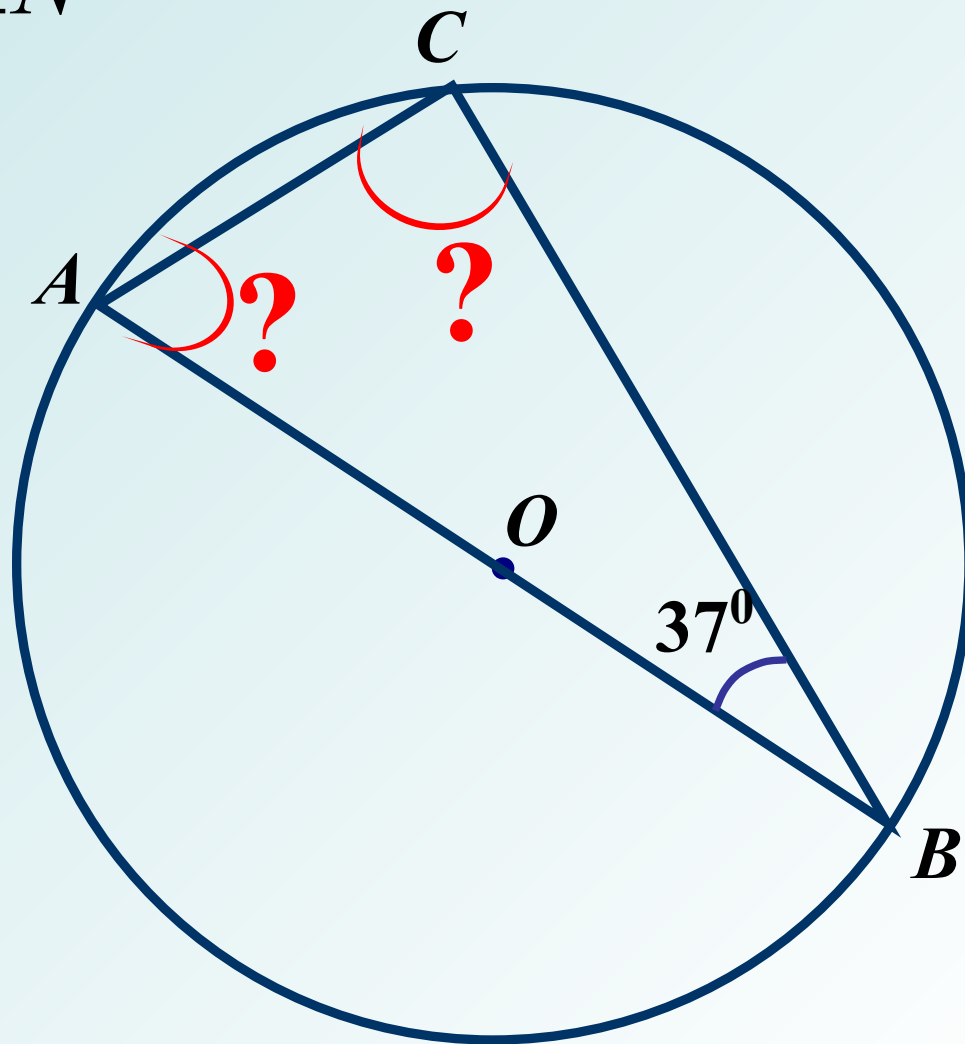
Найти: $\angle A \hat{A} \tilde{N}$



22.

Дано: $\triangle ABC$ вписан в (I, R)

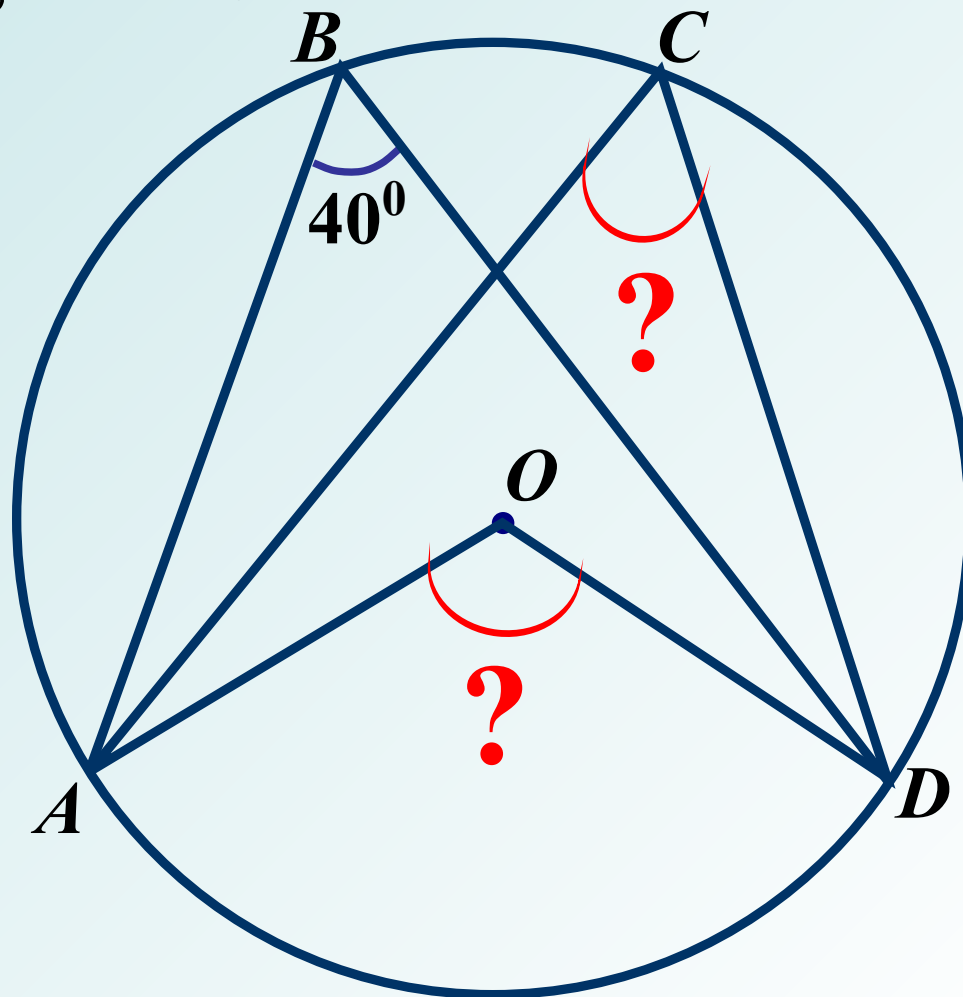
Найти: $\angle A$, $\angle N$



23.

Дано: $\hat{I} \hat{e} \hat{D} . (\hat{I} , R)$

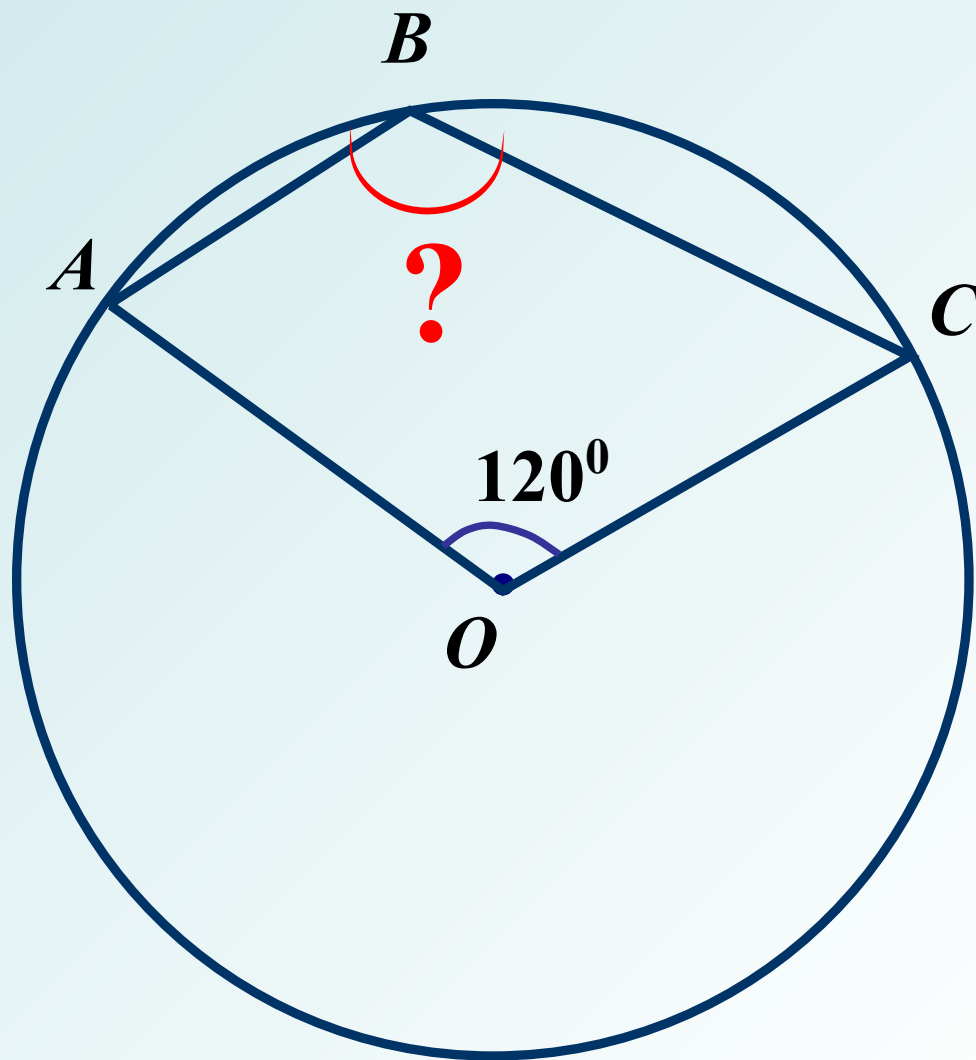
Найти: $\angle AOD, \angle A\tilde{N}D$



24.

Дано: $\hat{I} \in \delta .(\hat{I} , R)$

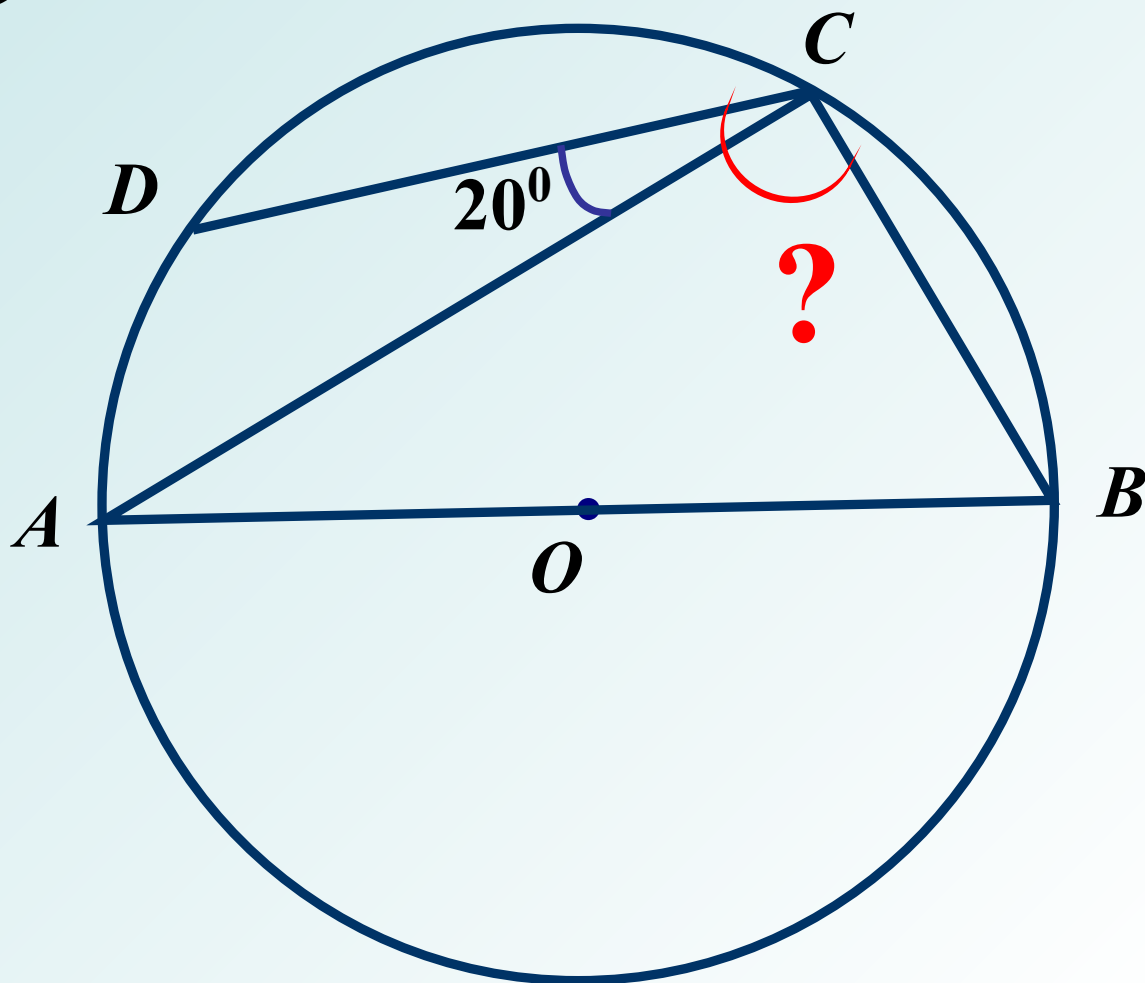
Найти: $\angle A\hat{A}\tilde{N}$



25.

Дано: $\hat{I} \in \partial (I, R)$

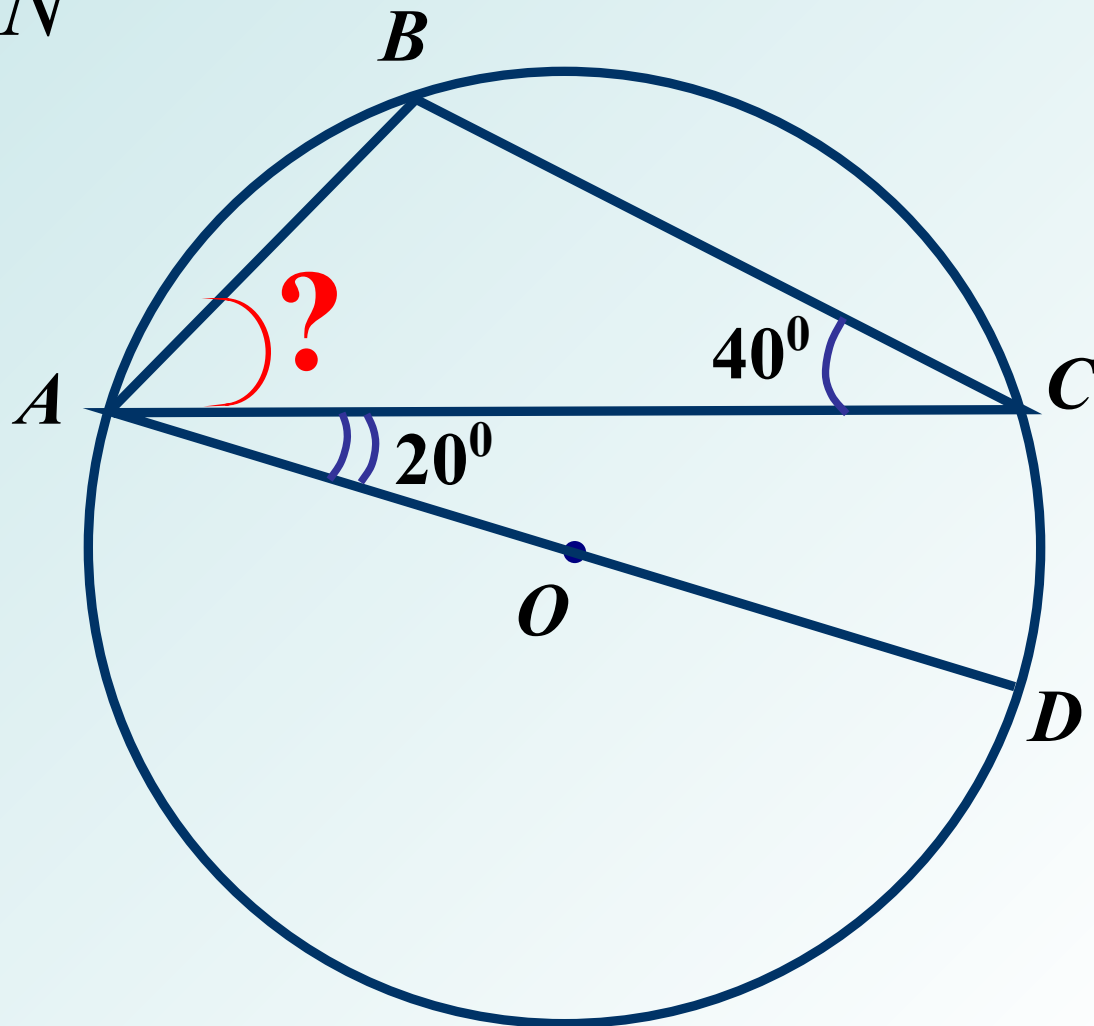
Найти: $\angle \hat{A} \hat{N} D$



26.

Дано: $\hat{I} \hat{e} \delta .(\hat{I} , R)$

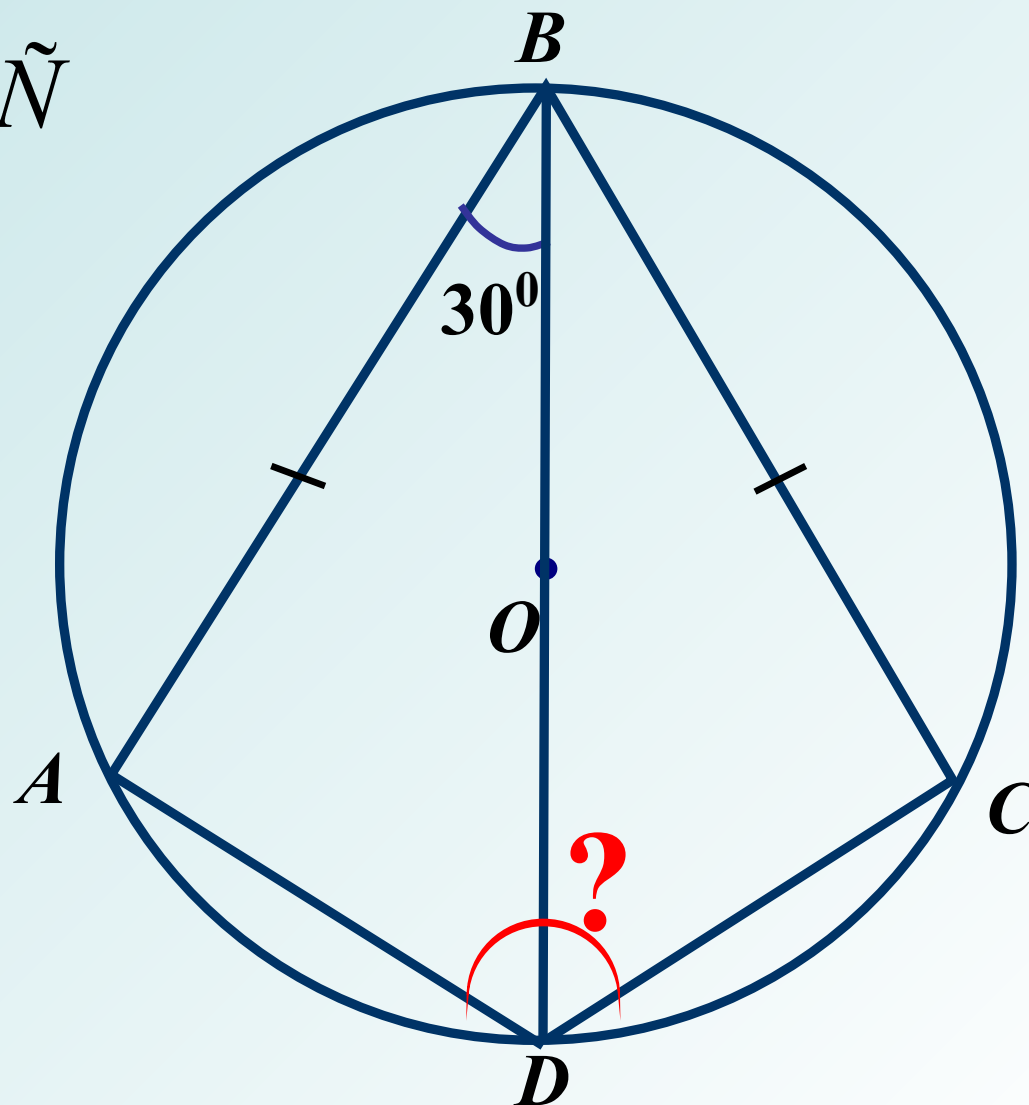
Найти: $\angle \hat{A} \hat{A} \tilde{N}$



27.

Дано: $\hat{I} \hat{e} \delta . (\hat{I} , R)$

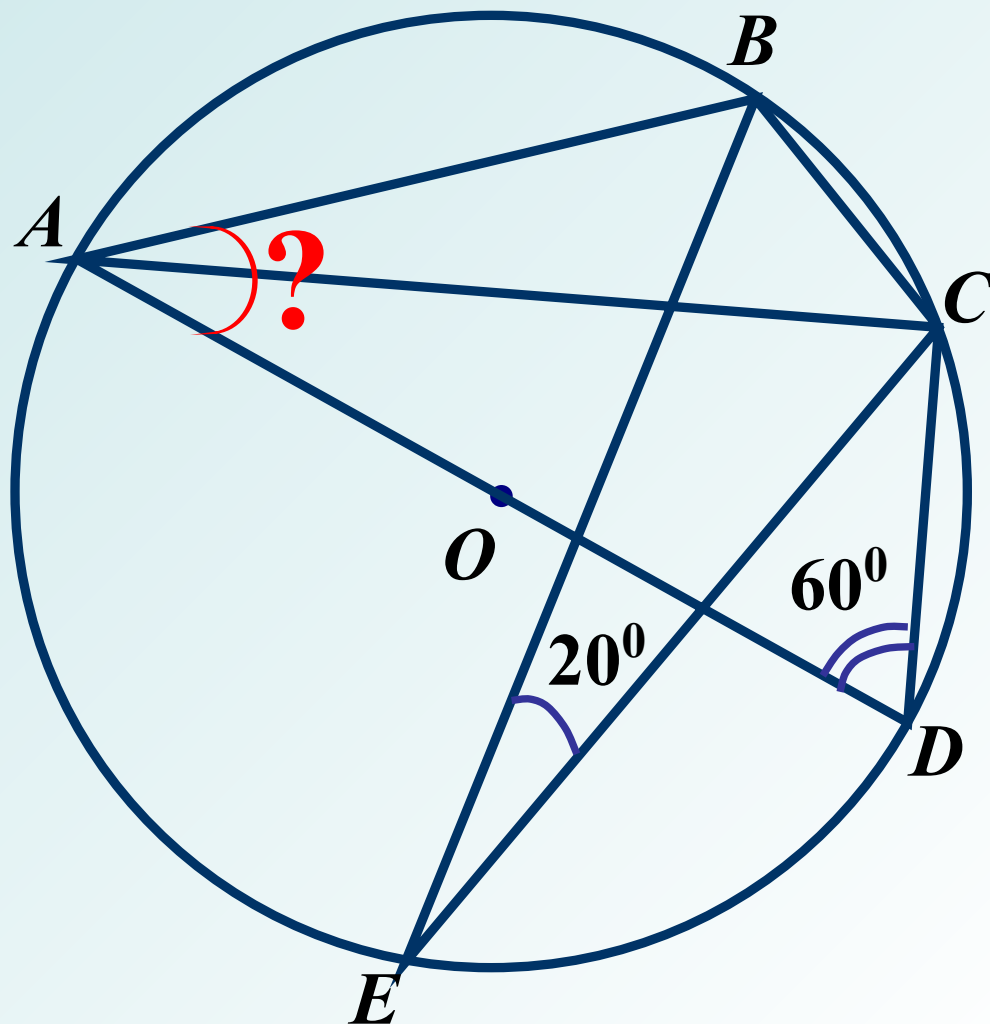
Найти: $\angle AD\tilde{N}$



28.

Дано: $\hat{I} \hat{e} \hat{D} . (\hat{I} , R)$

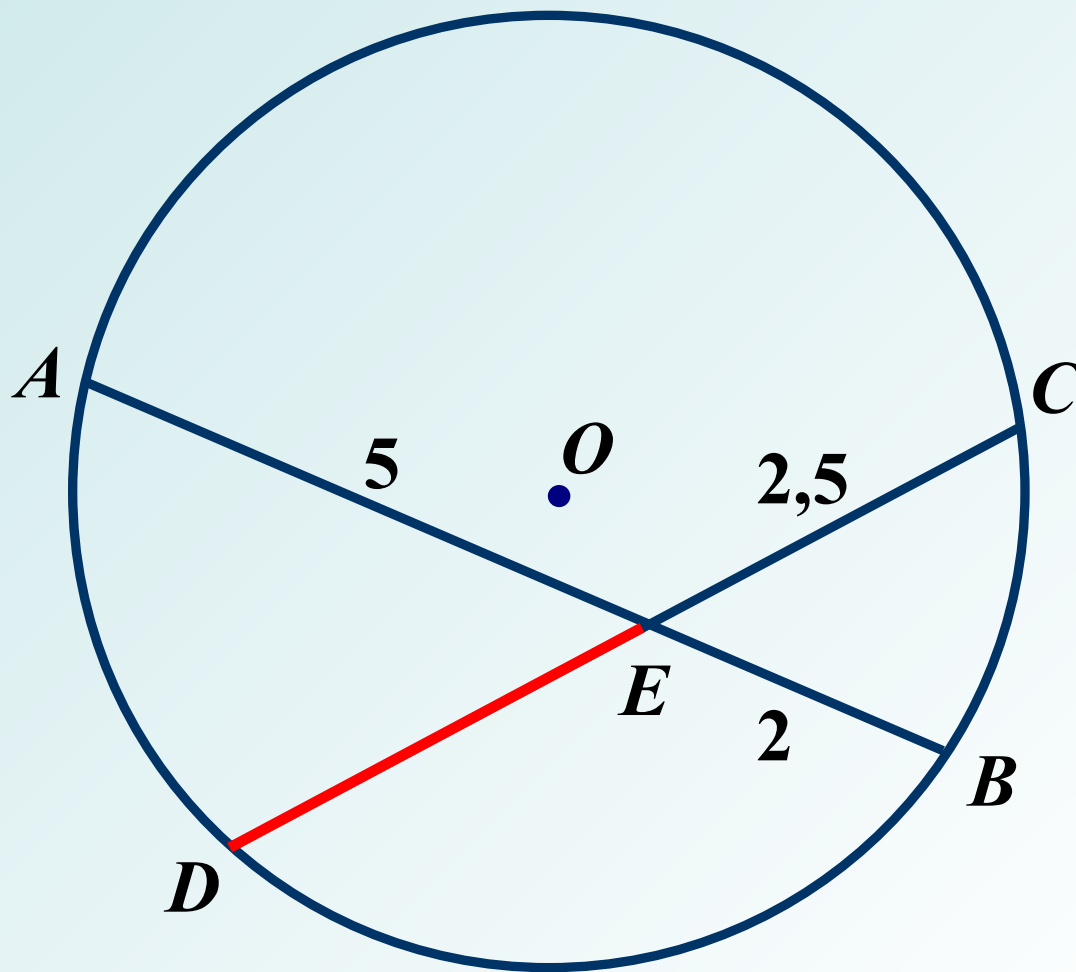
Найти: $\angle BAD$



29.

Дано: $\hat{I} \hat{e} \delta .(I, R)$

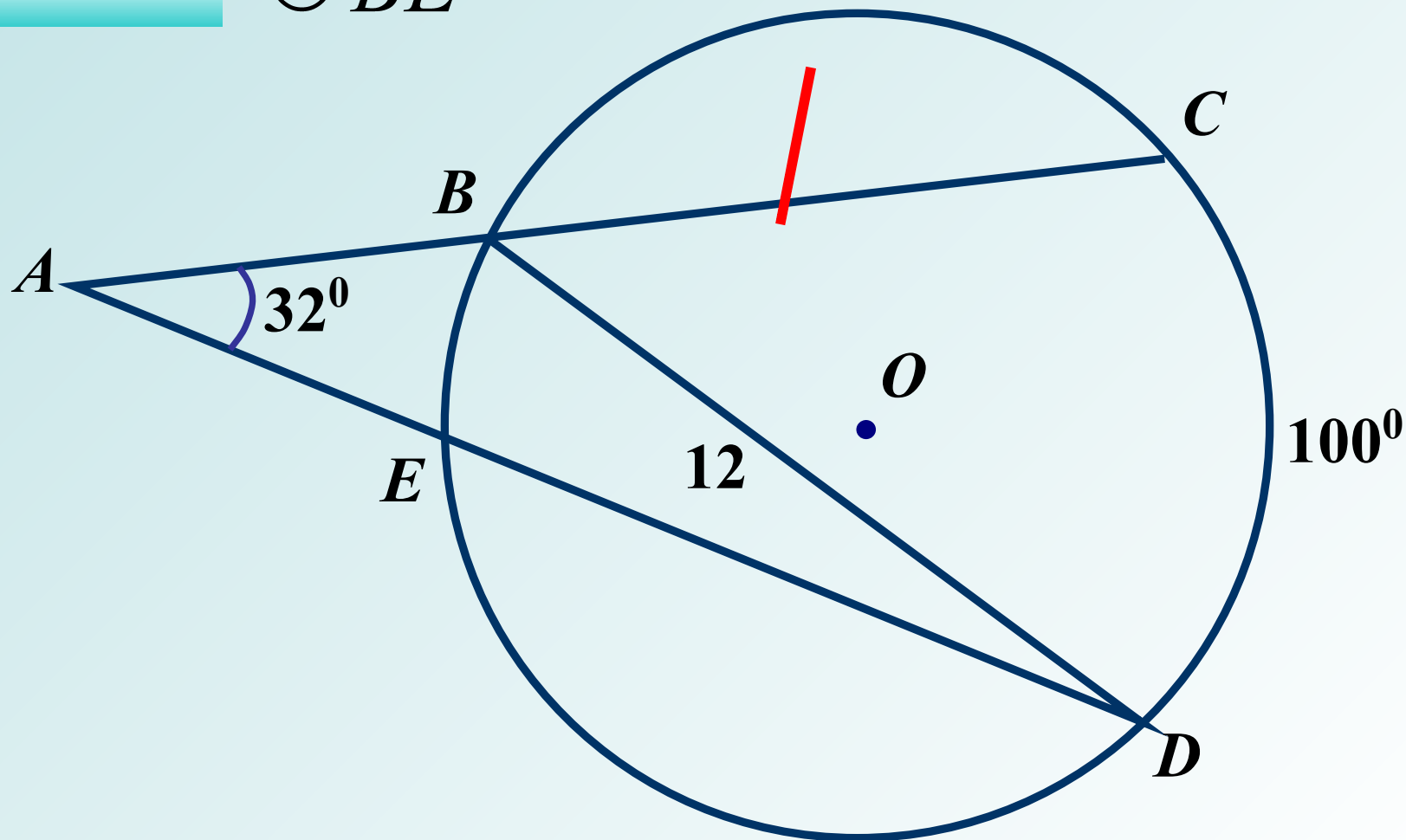
Найти: DE



30.

Дано: $\hat{I} \hat{e} \delta . (\hat{I} , R), \cup CD = 100^{\circ}$

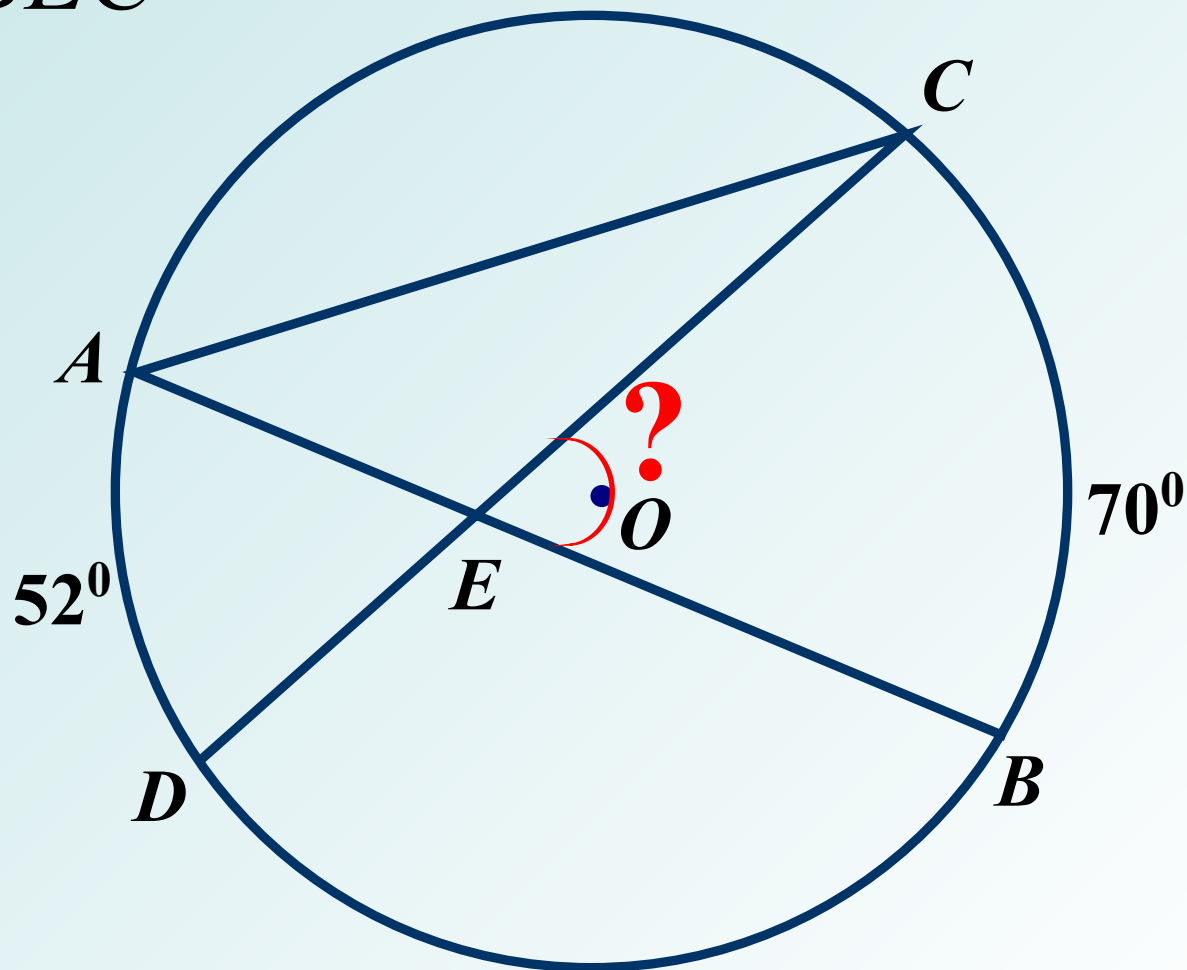
Найти: $\cup BE$



31.

Дано: $\hat{I} \hat{e} \hat{D} . (\hat{I} , R)$

Найти: $\angle BEC$



32.

Дано: $\hat{I} \hat{e} \delta .(I, R)$

Найти: $\angle A, \angle C, \angle AOC$

