

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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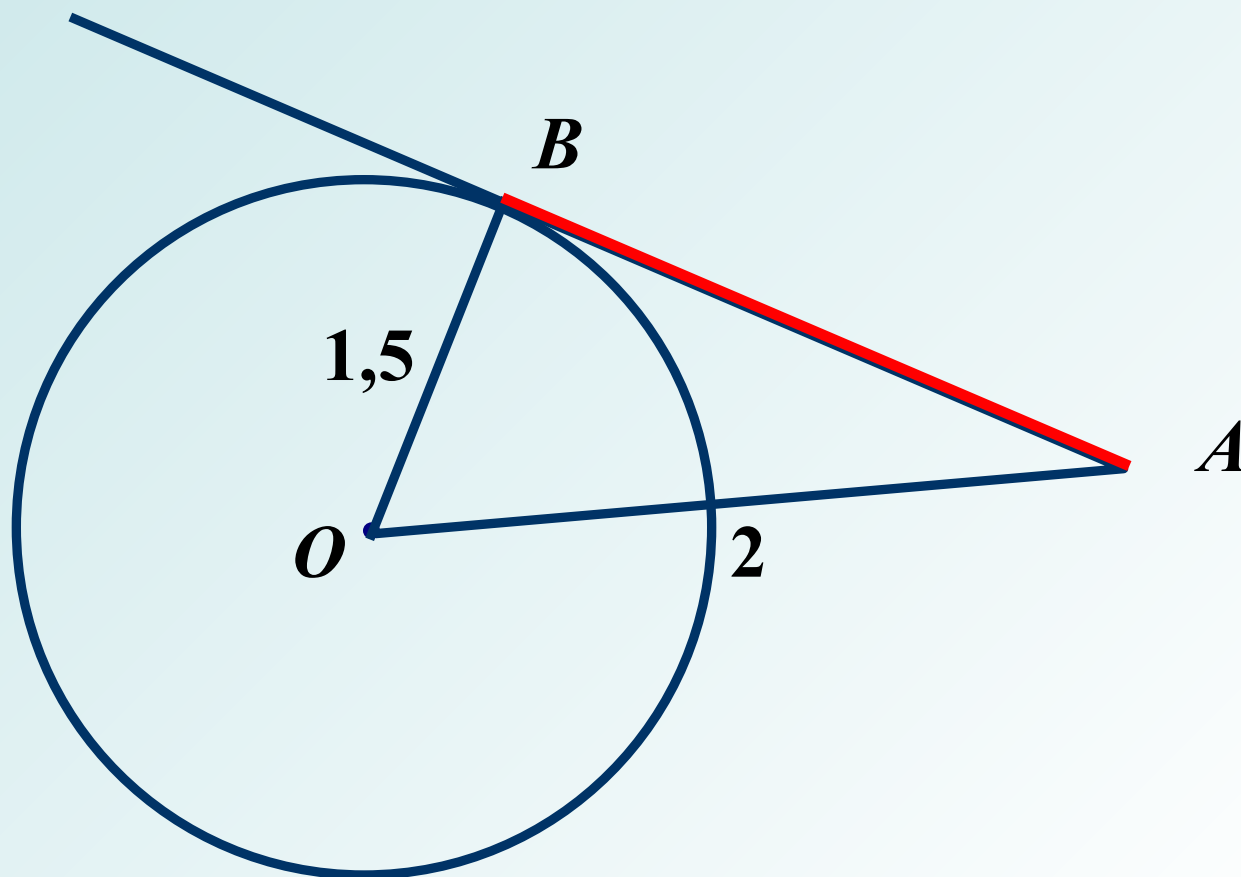
1.

Дано:

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

Найти:

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



2.

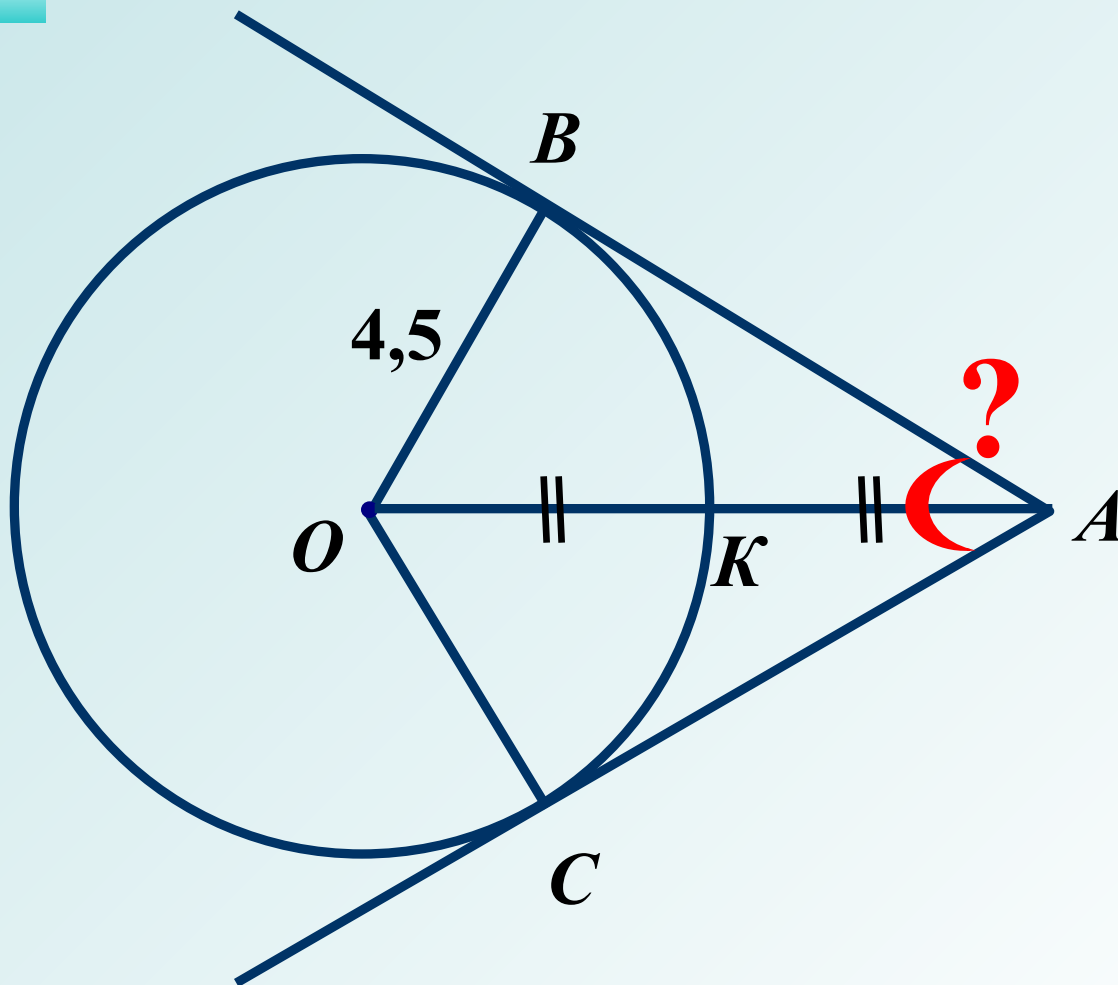
Дано:

$\text{дана } (I, r)$

AA', AN – касательные к

Найти:

$\angle AAN$



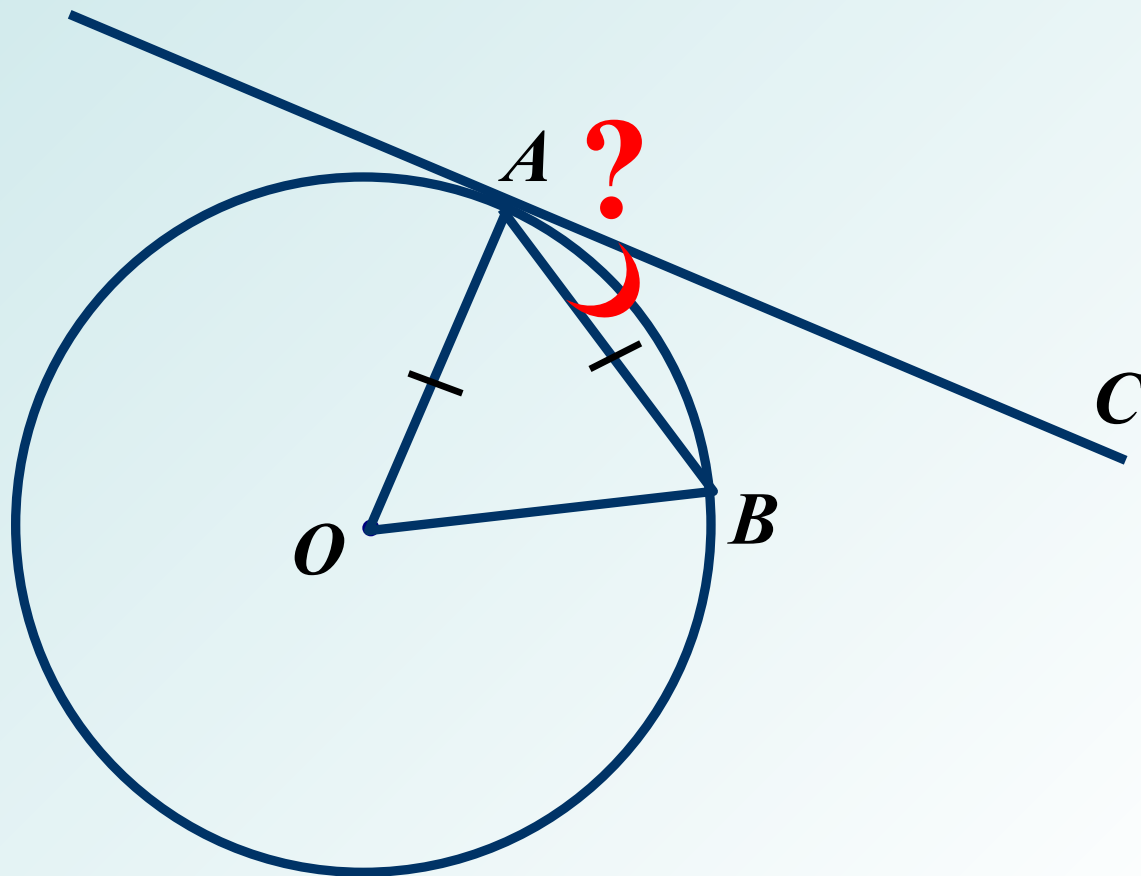
3.

Дано:

$\hat{I} \in \text{д} .(\hat{I} , \hat{I} \hat{A})$
 $\hat{A} \hat{N} - \text{е} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{a} \hat{y}$

Найти:

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



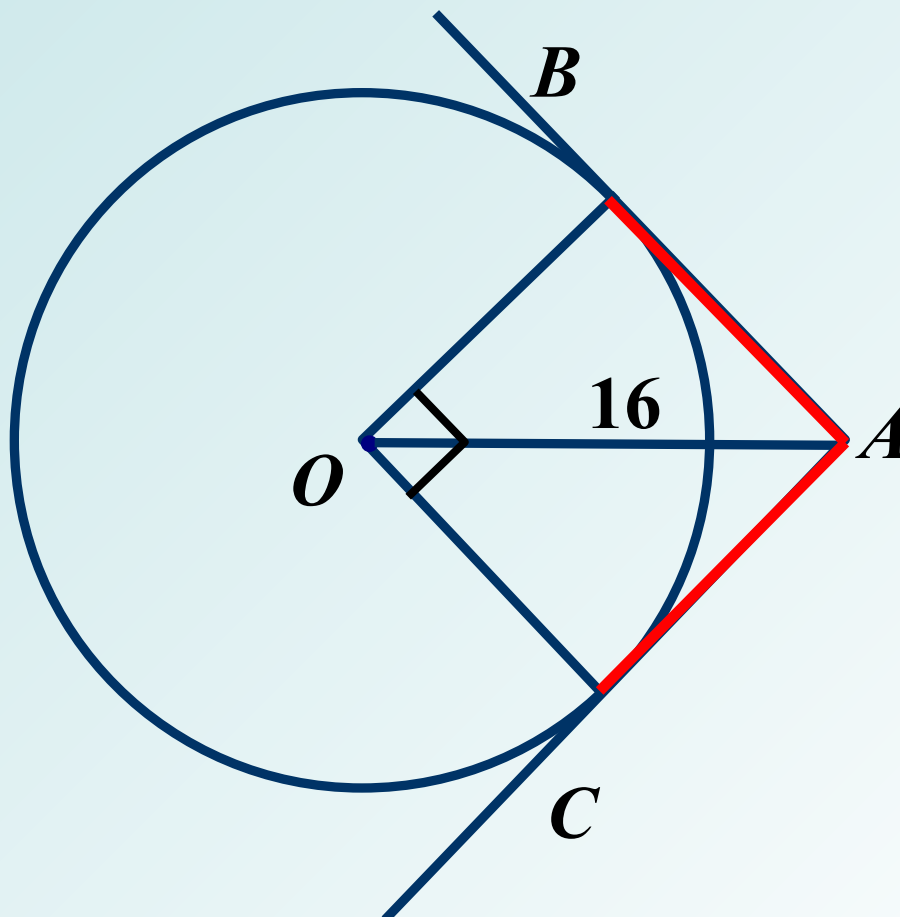
4.

Дано:

$\angle BOA = 16^\circ$, $\angle AOB = 16^\circ$, $\angle AOB = 16^\circ$

Найти:

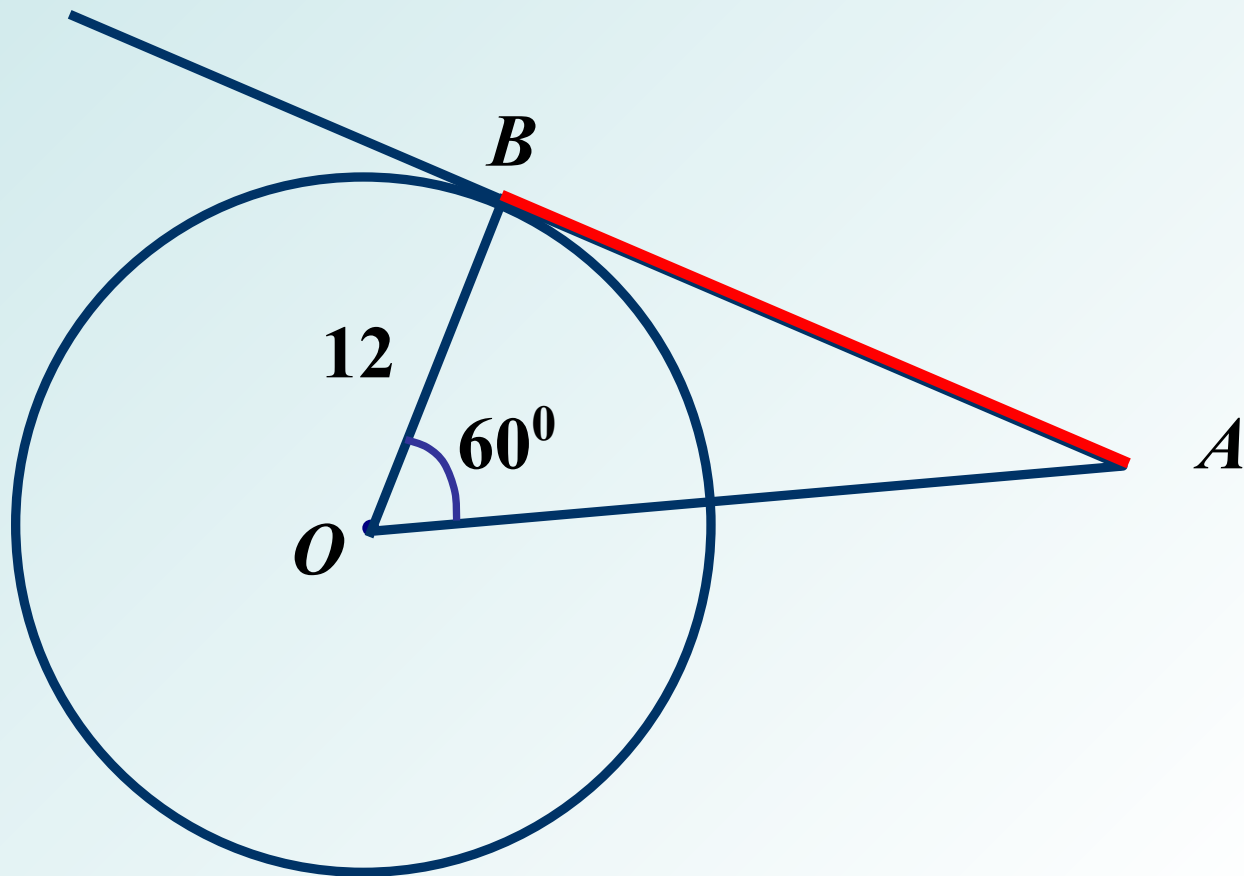
$\angle AOB$, $\angle AOB$



5.

Дано: $\hat{I} \in \hat{O} .(\hat{I} , \hat{IA})$,
 $\hat{AA} - \text{еàñàòåüíà } \ddot{y}$

Найти: $\hat{AA}$



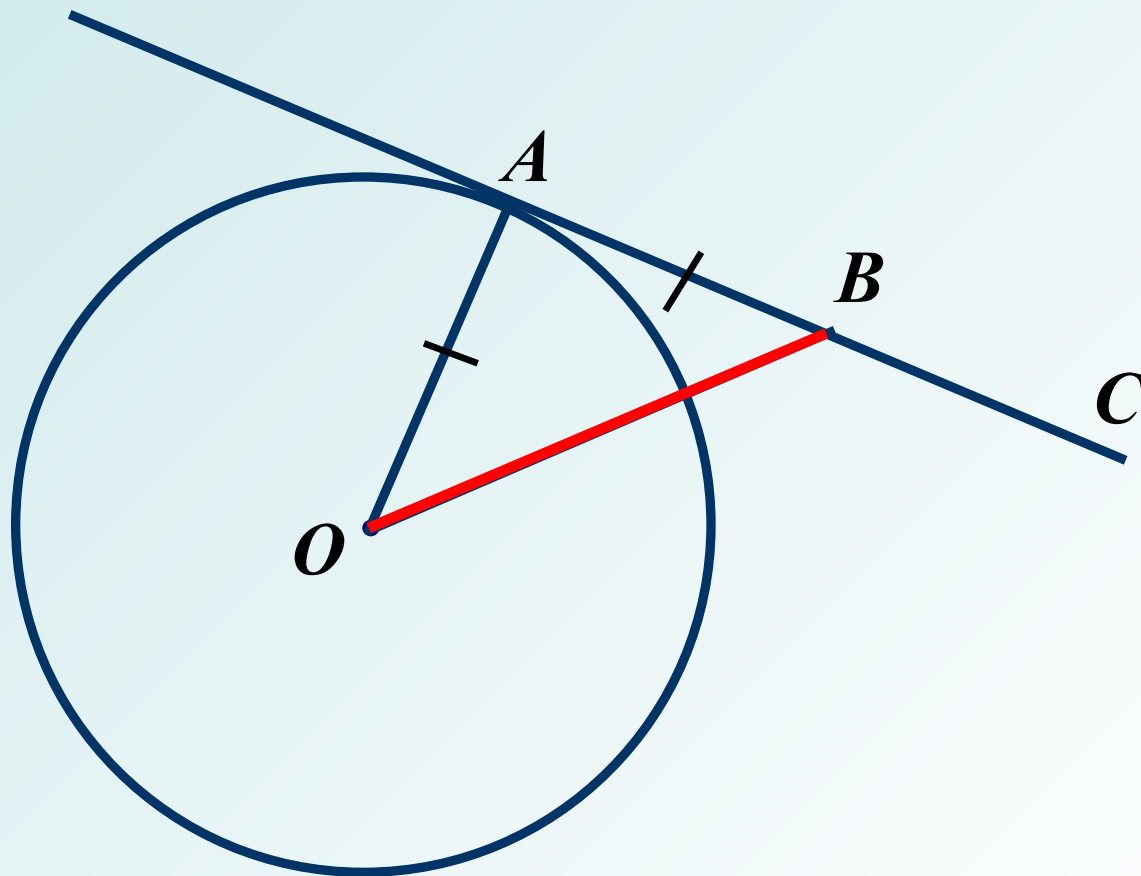
6.

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:

$O\hat{A}$



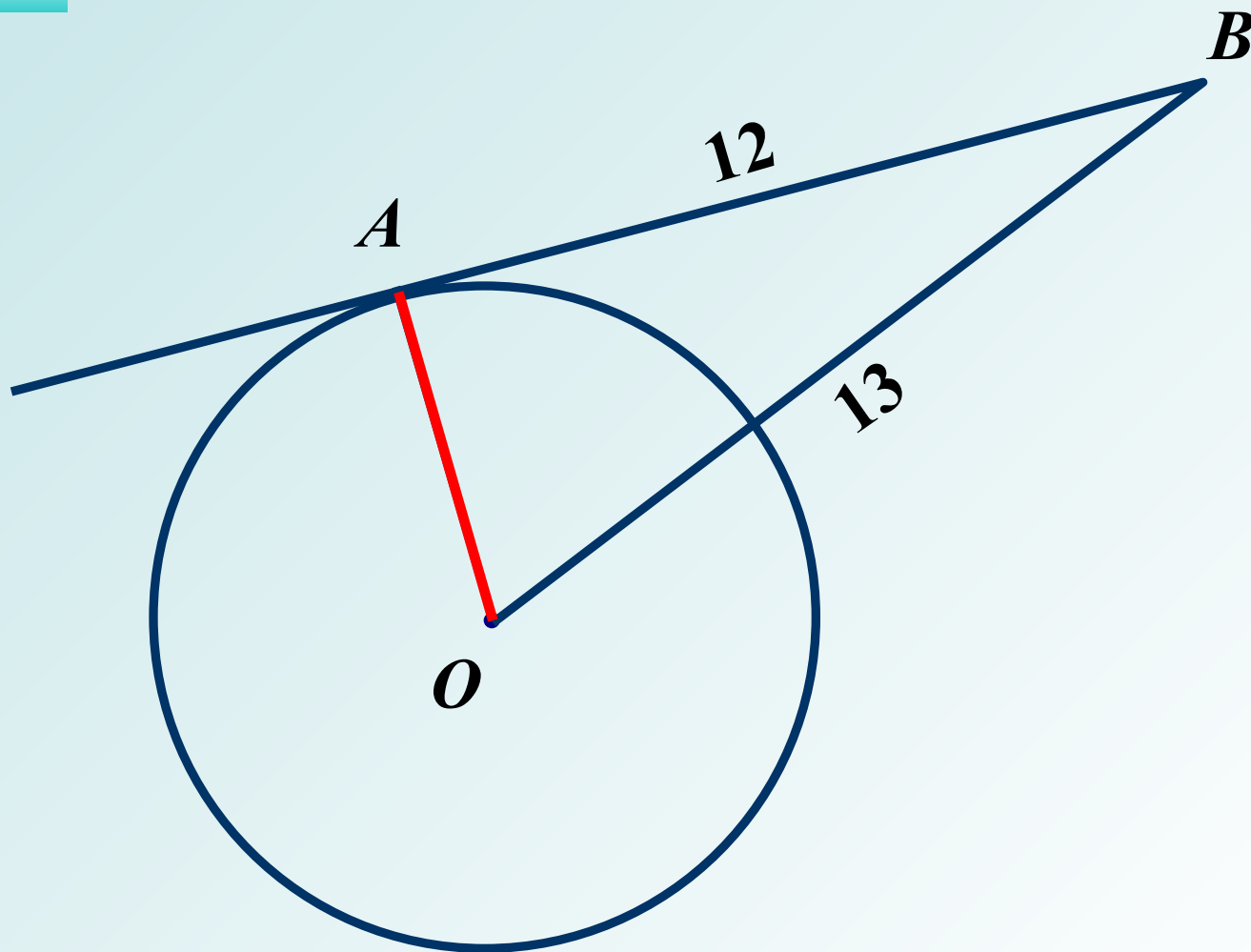
7.

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.

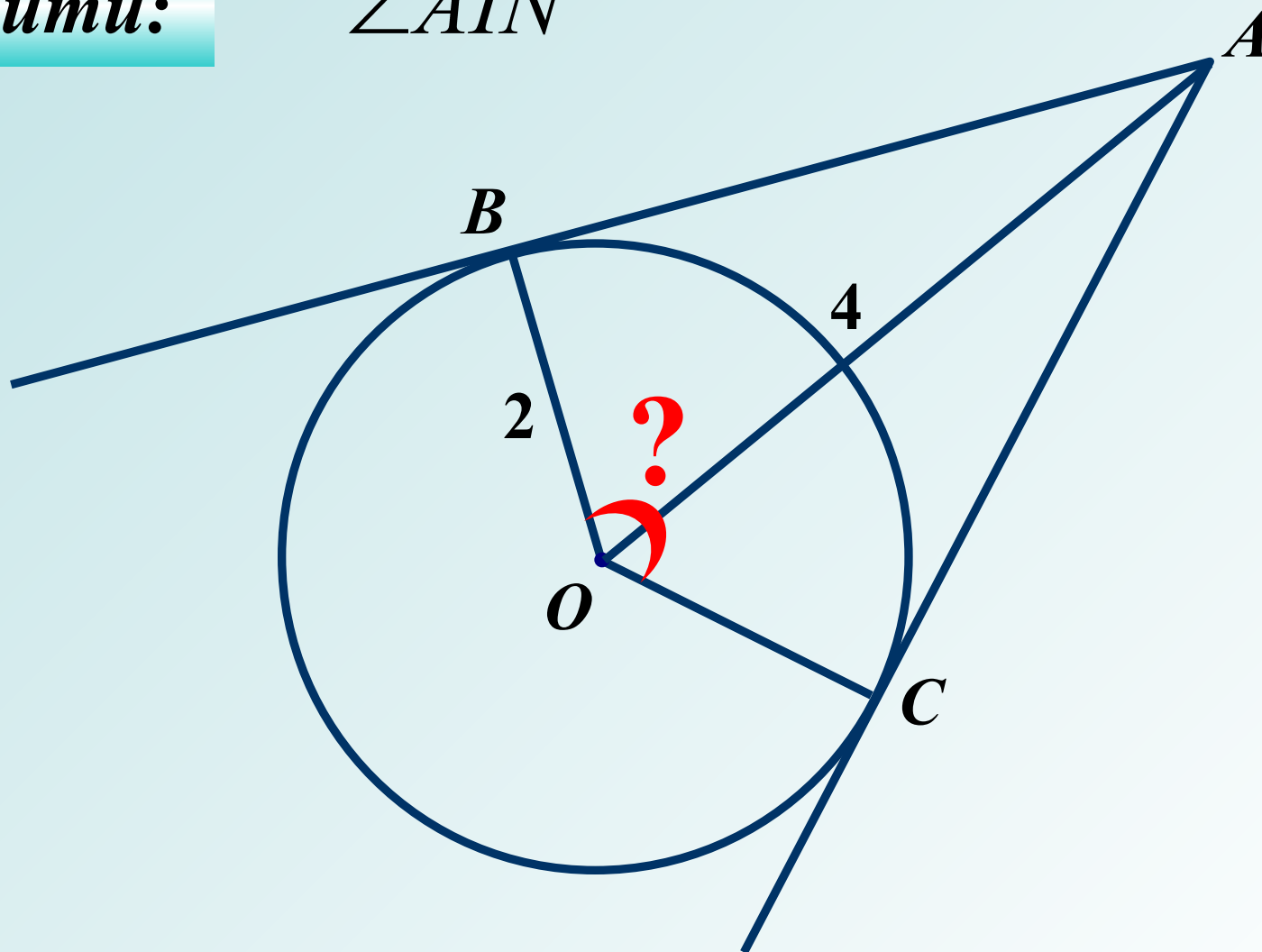
Дано:

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

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

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

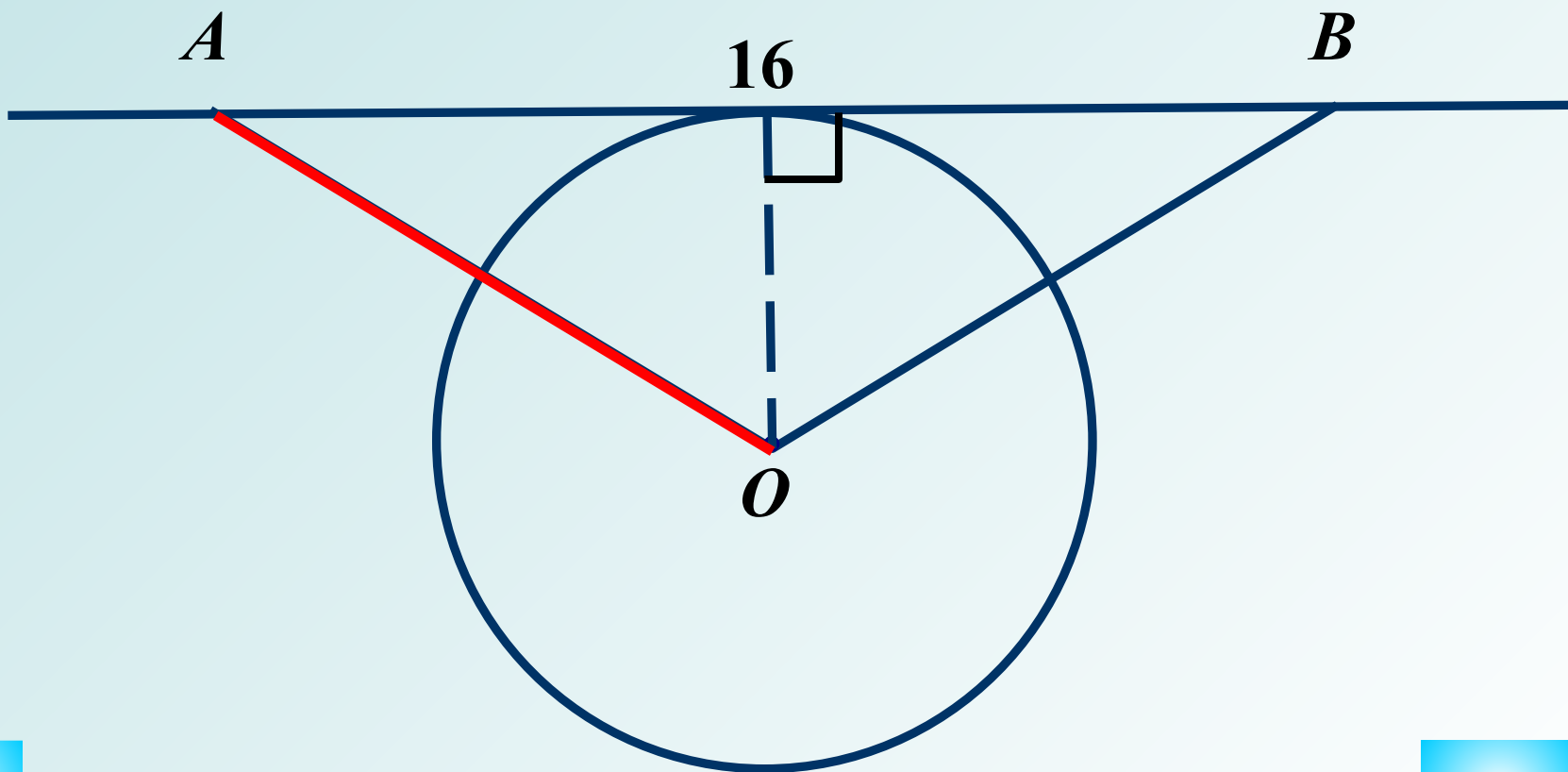
Найти:



9.

Дано: $\hat{I} \in \odot (I, R), R = 6$
 $\hat{A} \hat{A} - \text{есть дуга окружности}, \hat{I} \hat{A} = \hat{I} \hat{B}$

Найти: OA



Доп.

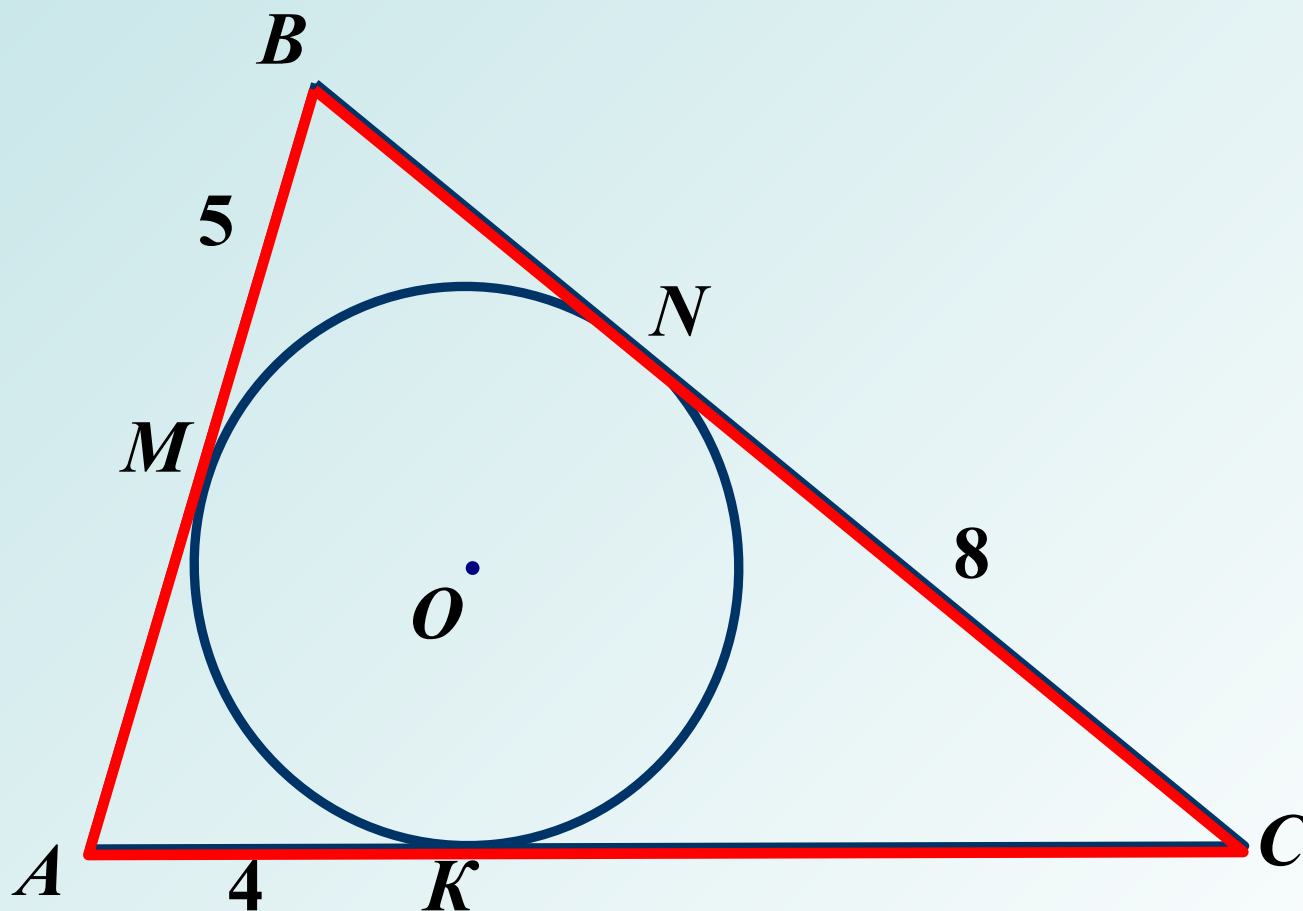
10.

Дано:

I, N, K – ої÷еє еàñàíèÿ

Найти:

P_{ABC}



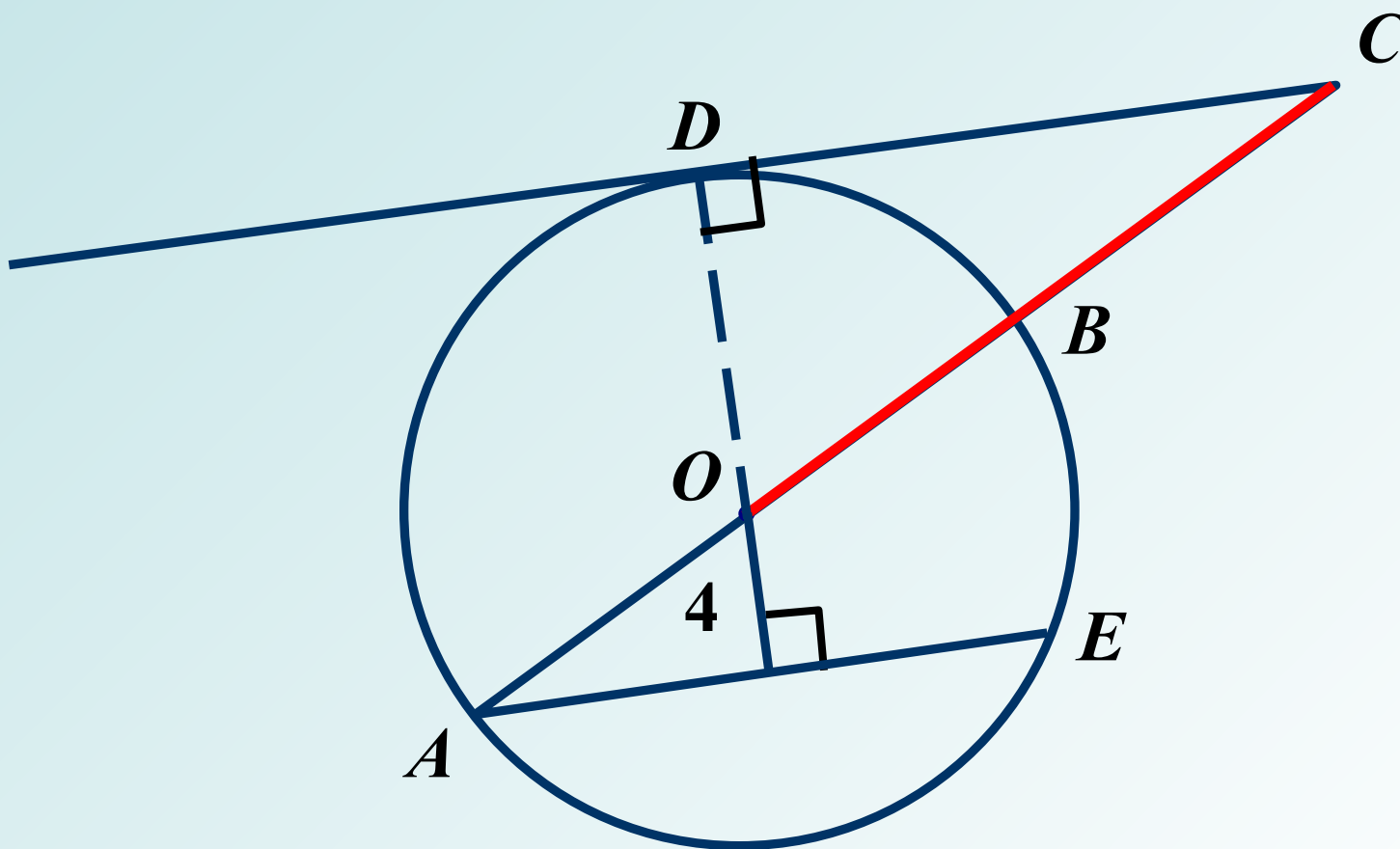
11.

Дано:

$\hat{I} \hat{e} \hat{o} . (\hat{I} , \hat{I} \hat{A}) , \hat{A} \hat{A} = 10$
 CD – $\hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{u} \hat{i} \hat{a} \hat{y} , \hat{A} \hat{E} \parallel CD$

Найти:

OC



Доп.

12.

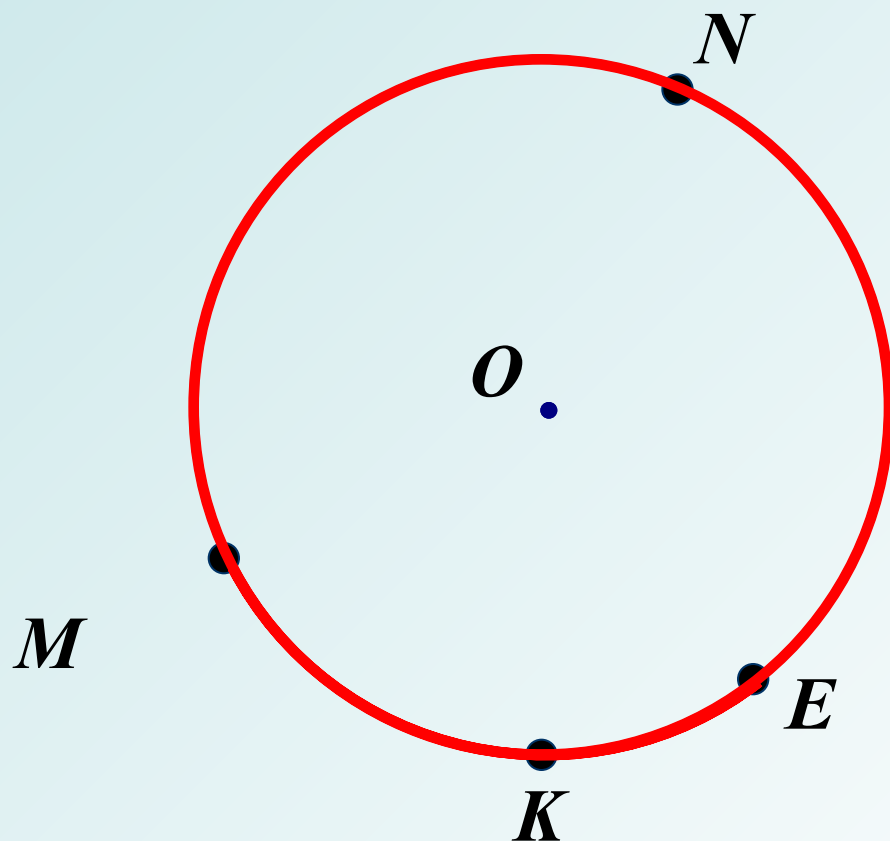
Дано:

$\hat{I} \hat{E} \hat{O} . (\hat{I} , R)$

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

Найти:

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



13.

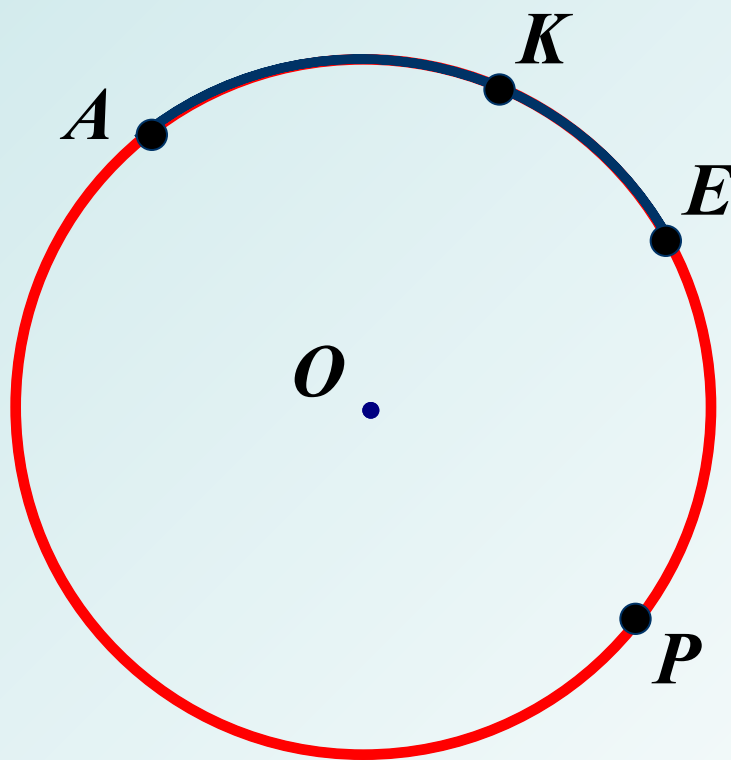
Дано:

$\hat{I} \in \hat{O} \cdot (\hat{I}, R)$

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

Найти:

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



14.

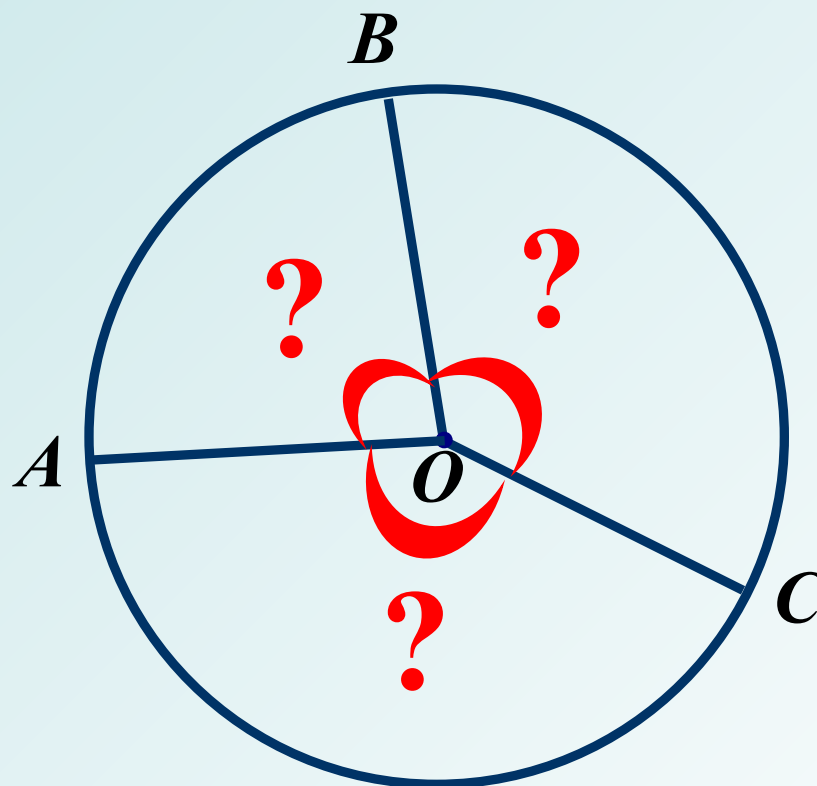
Дано:

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

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

Найти:

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



15.

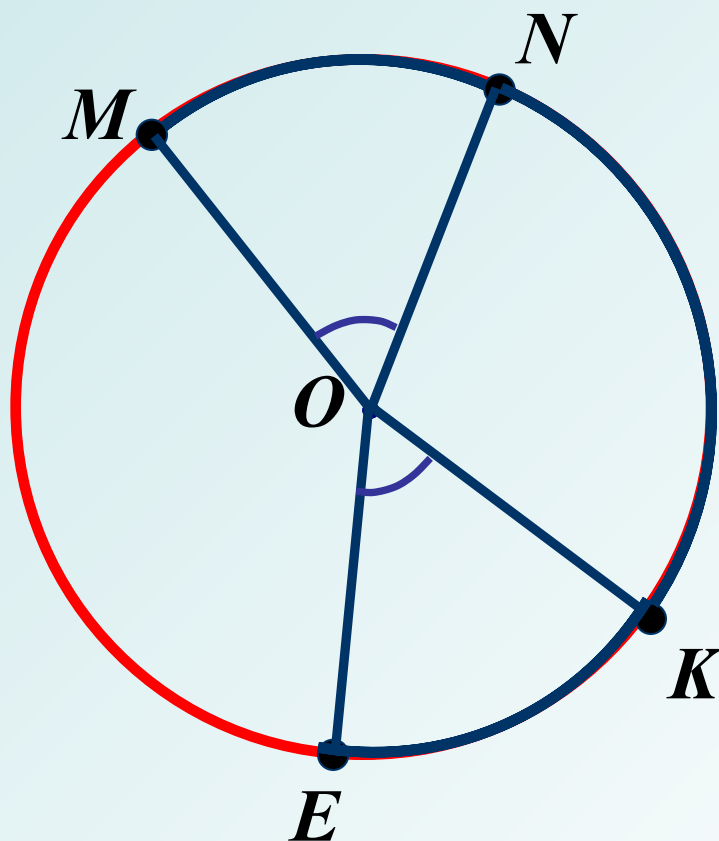
Дано:

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

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

Найти:

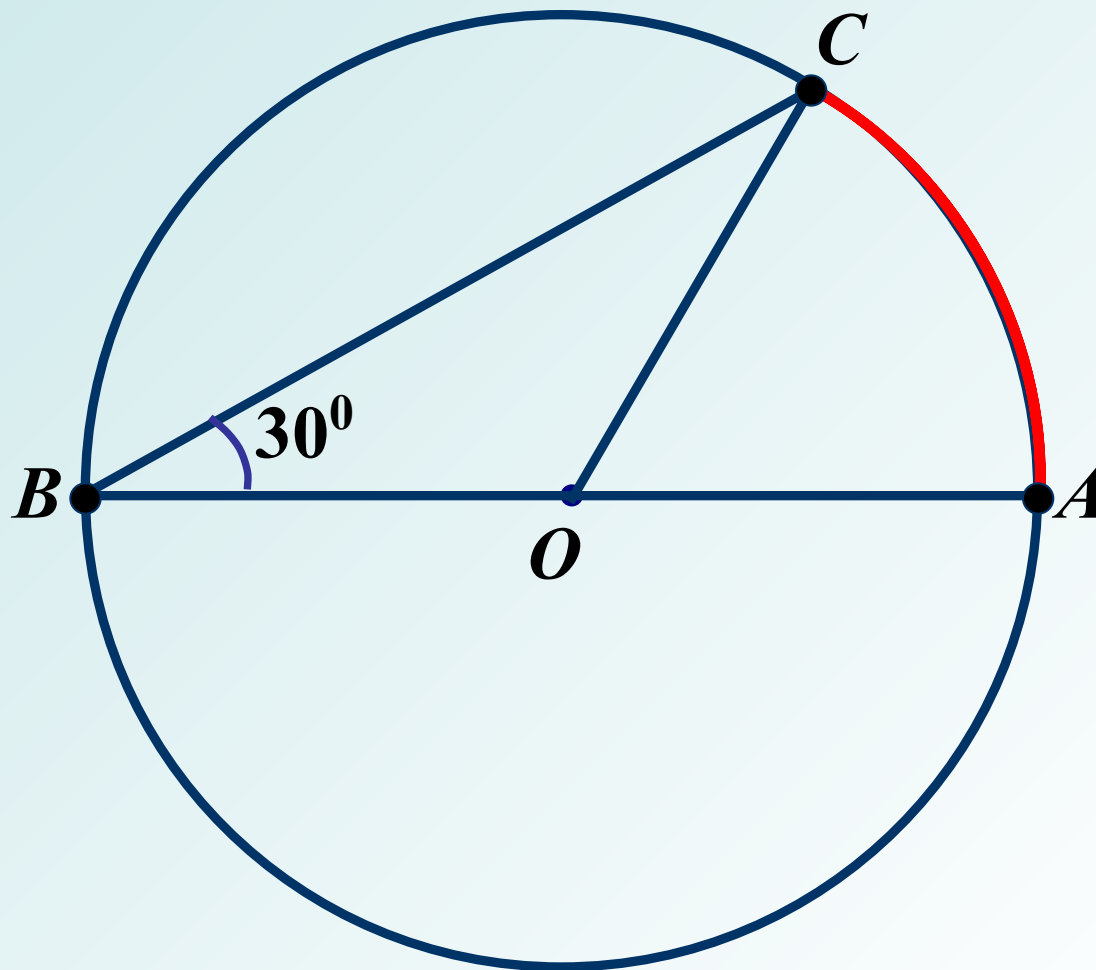
$\cup \hat{I} \hat{A} , \cup NK, \cup KE$



16.

Дано: $\widehat{ACB} (\hat{I}, R)$

Найти: $\cup \widehat{AN}$

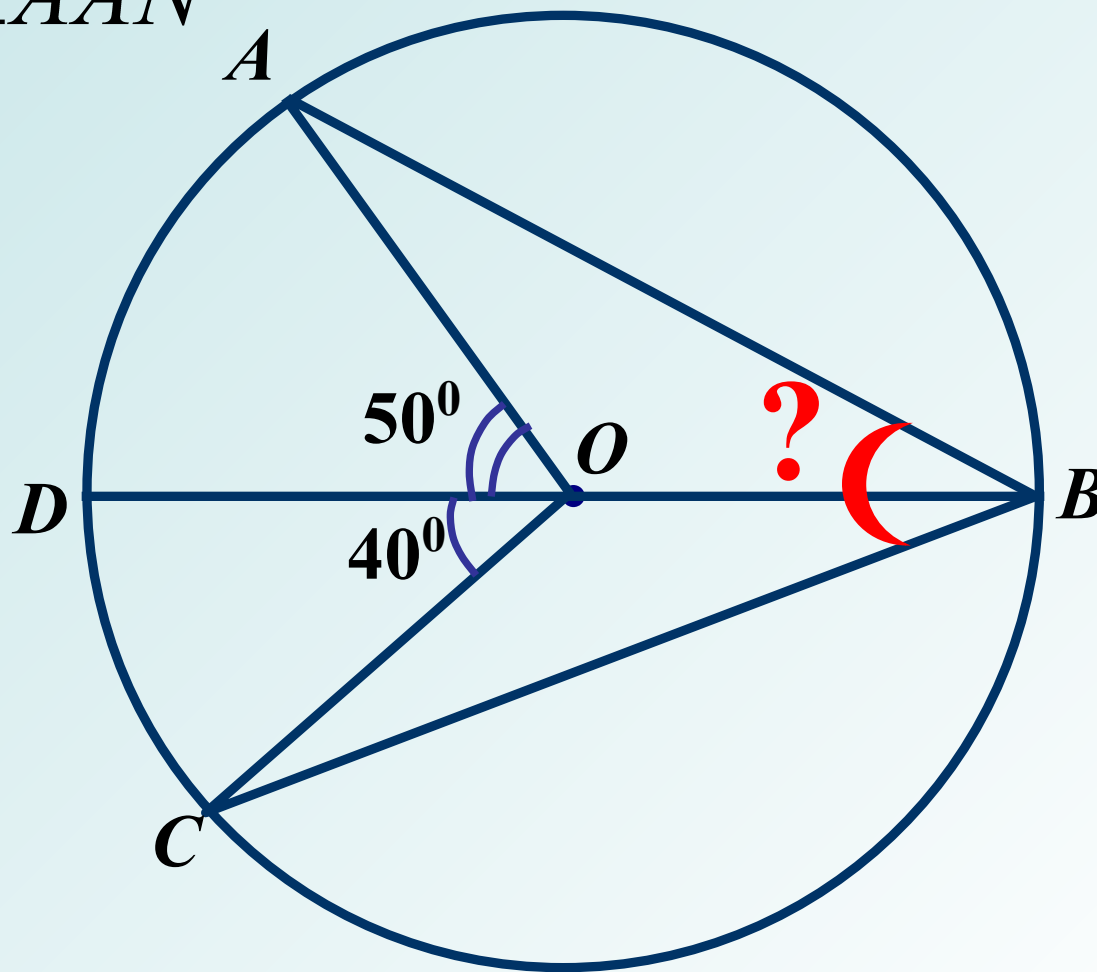


17.

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

Найти:

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



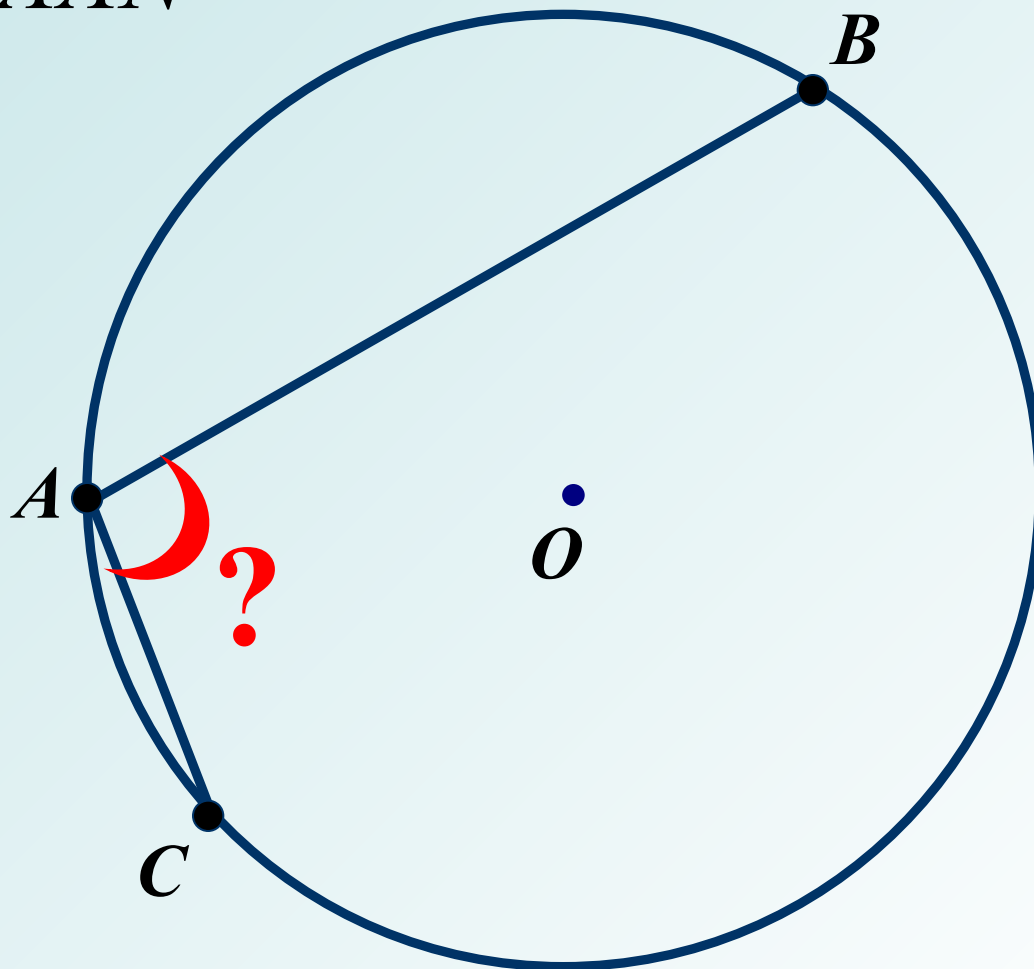
18.

Дано:

$\hat{I} \in \odot (I, R)$
 $\cup \hat{A}\hat{N} = 43^\circ, \cup \hat{A}\hat{A} = 115^\circ$

Найти:

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



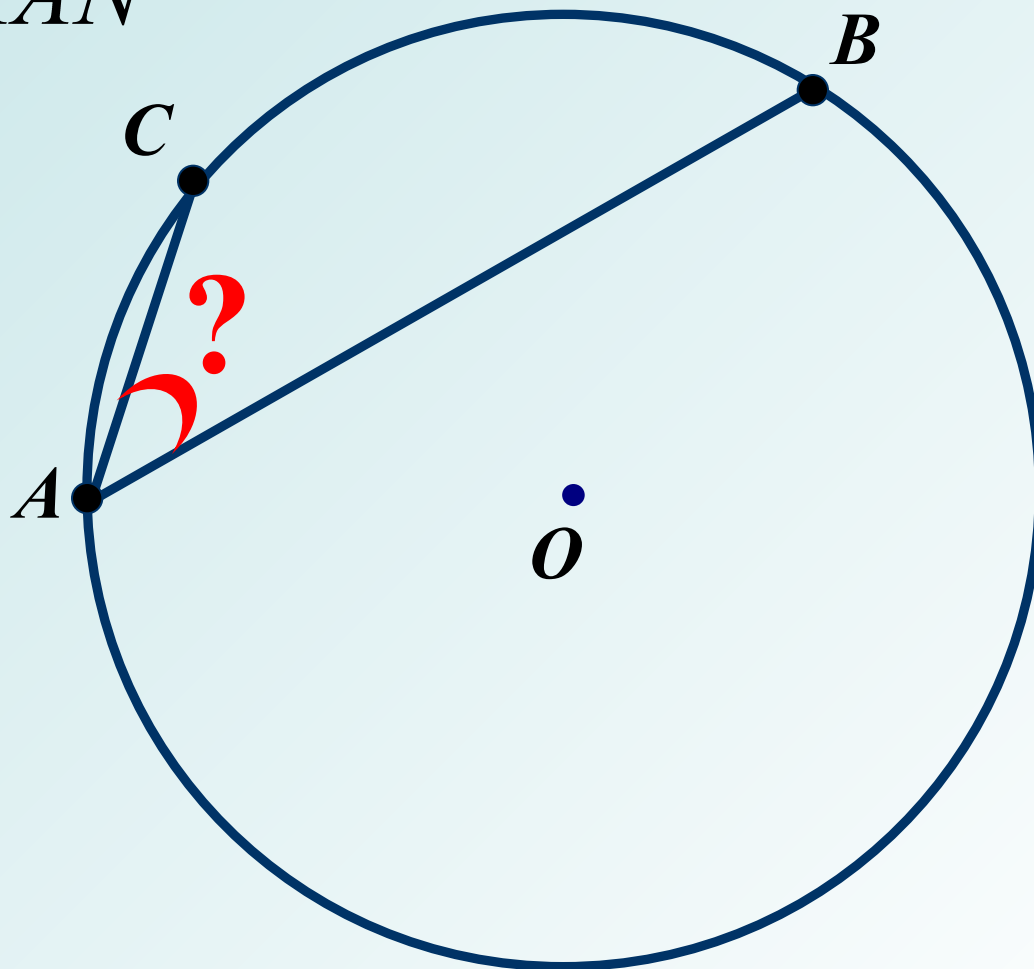
19.

Дано:

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

Найти:

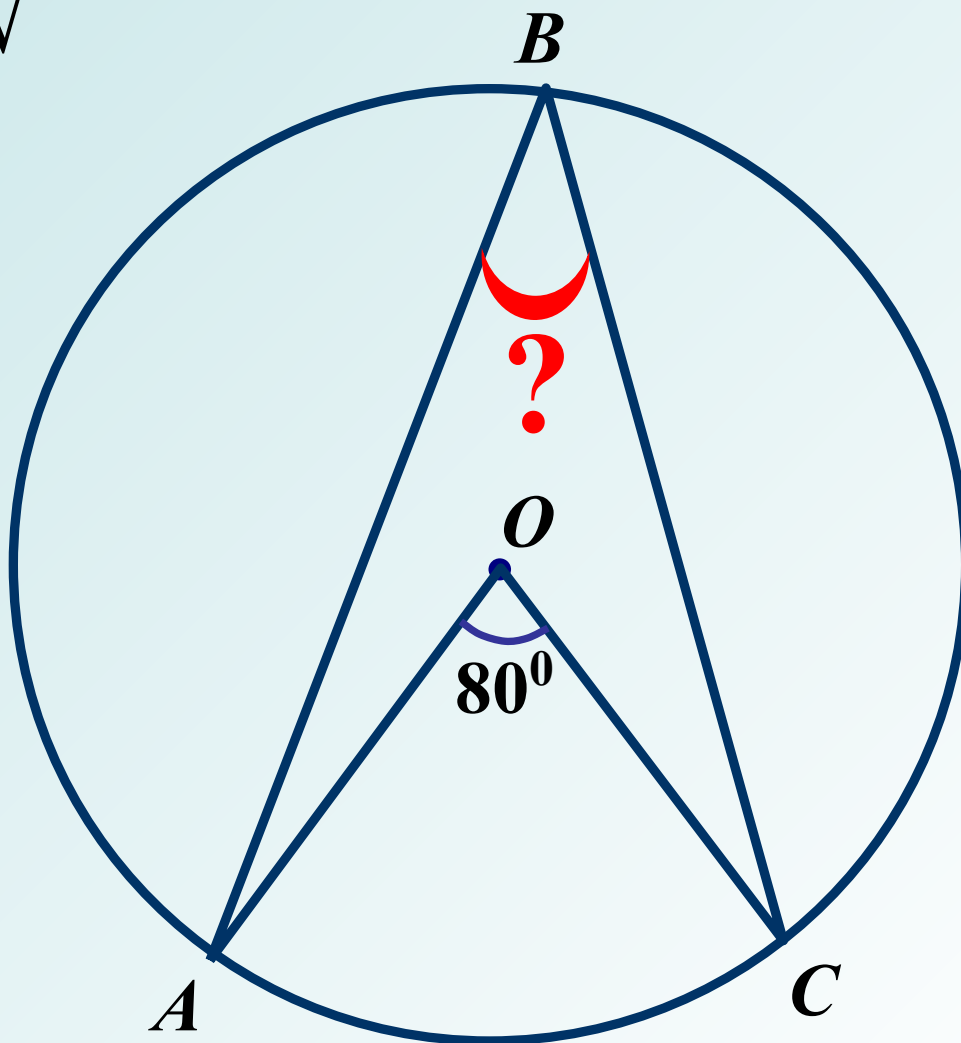
$$\angle \hat{A\tilde{A}\tilde{N}}$$



20.

Дано: $\triangle ABC$ вписан в $\odot O$. $\angle AOC = 80^\circ$

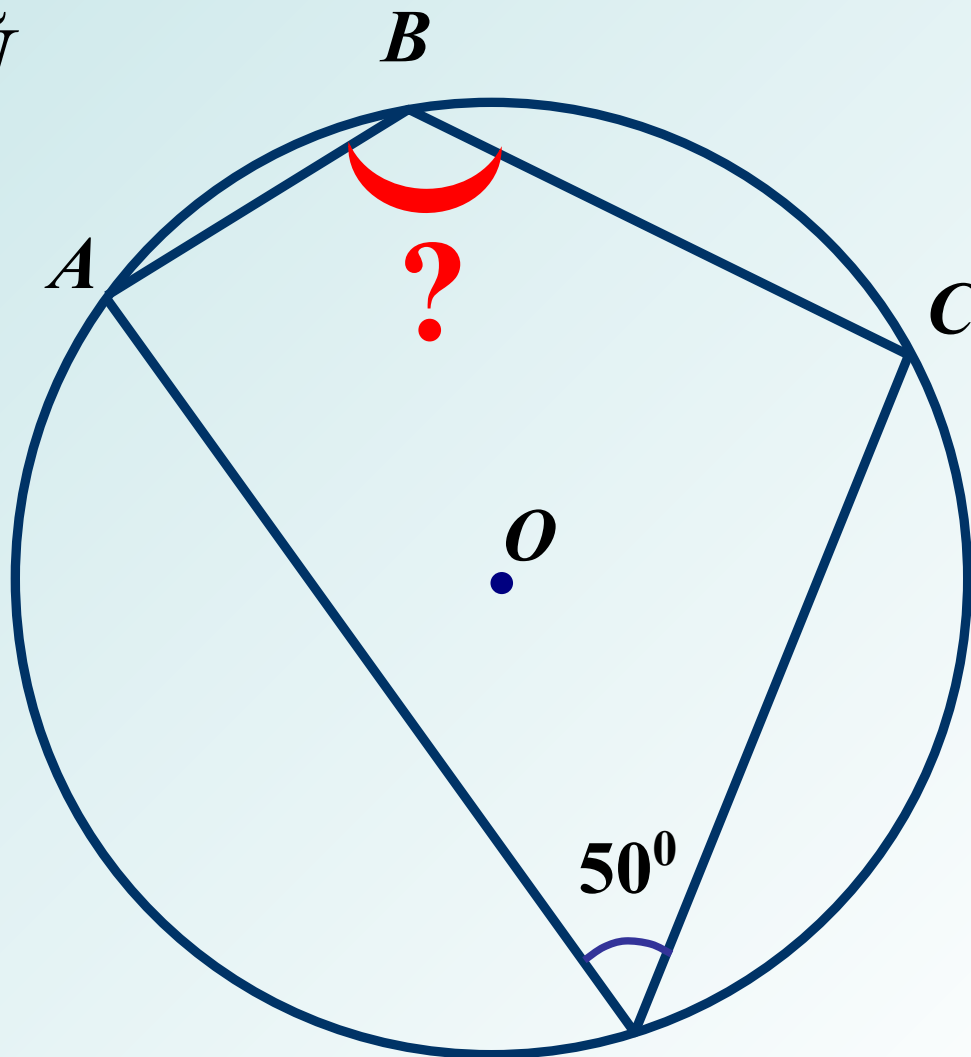
Найти: $\angle ABC$



21.

Дано: $\widehat{ACB} . (\widehat{I} , R)$

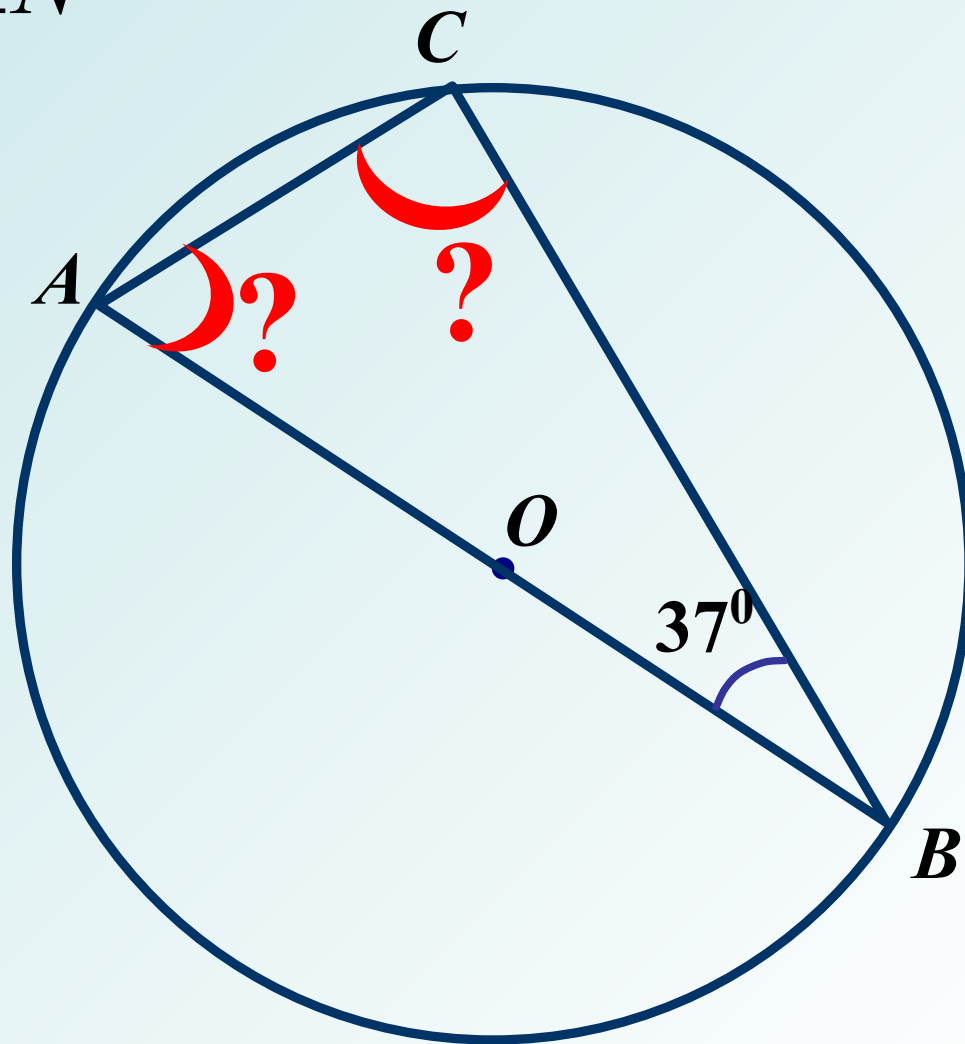
Найти: $\angle A\widehat{A}N$



22.

Дано: $\triangle ABC$ в $\odot (O, R)$

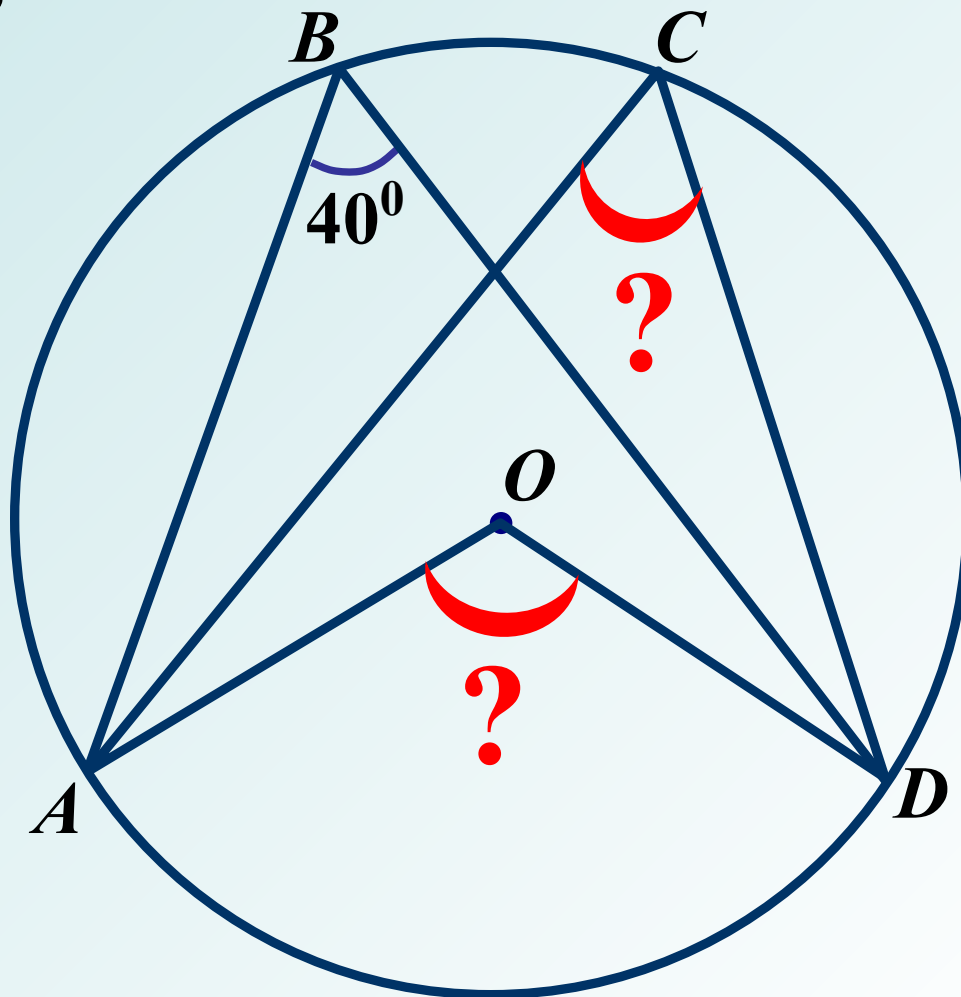
Найти: $\angle A$, $\angle C$



23.

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

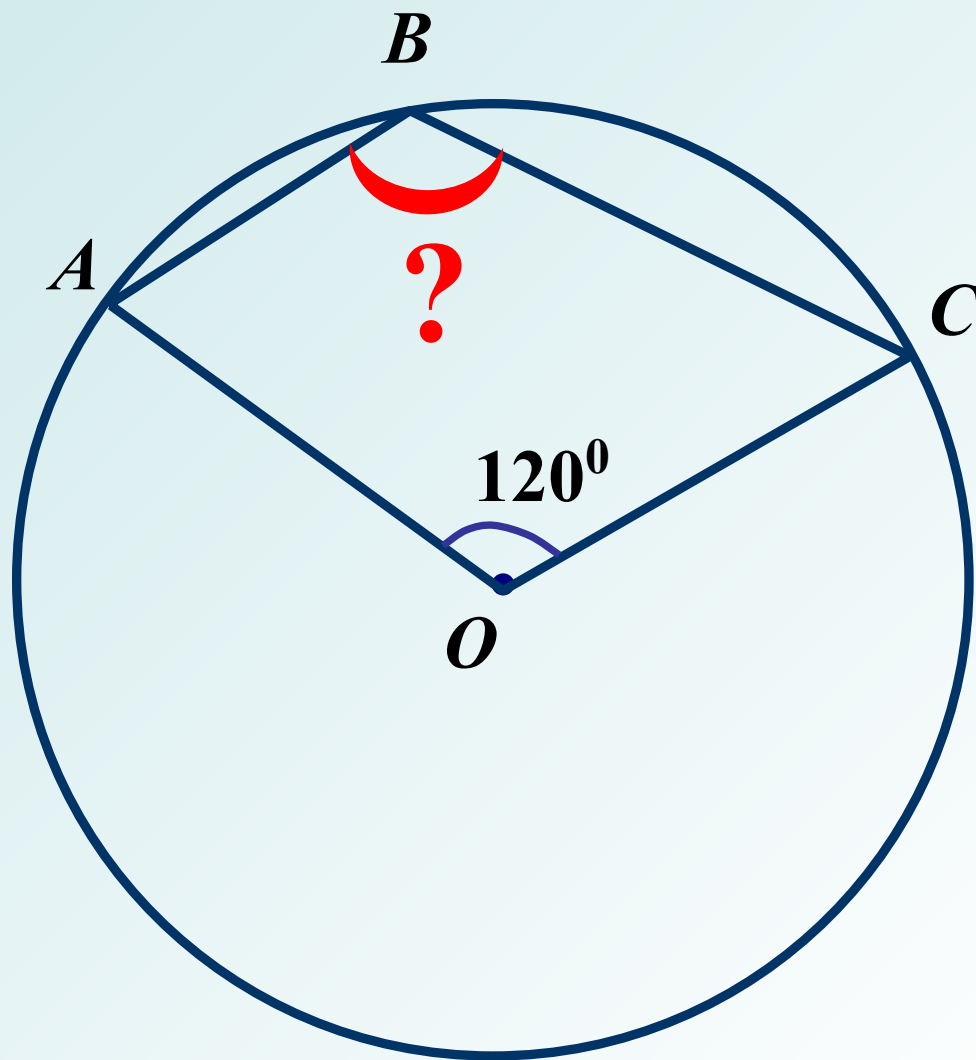
Найти: $\angle AOD, \angle A\tilde{N}D$



24.

Дано: $\triangle ABC$ вписан в (O, R)

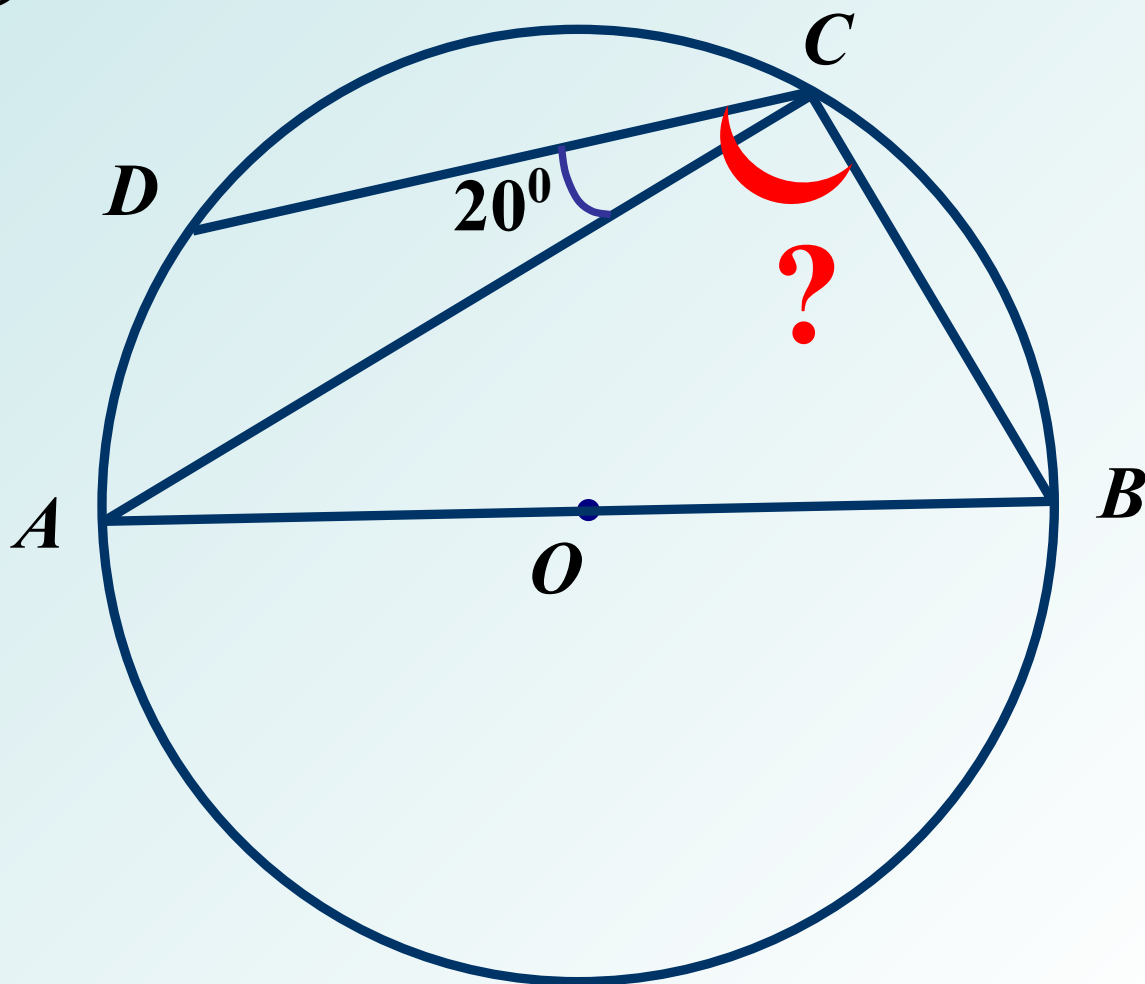
Найти: $\angle A$



25.

Дано: $\hat{I} \in \partial (I, R)$

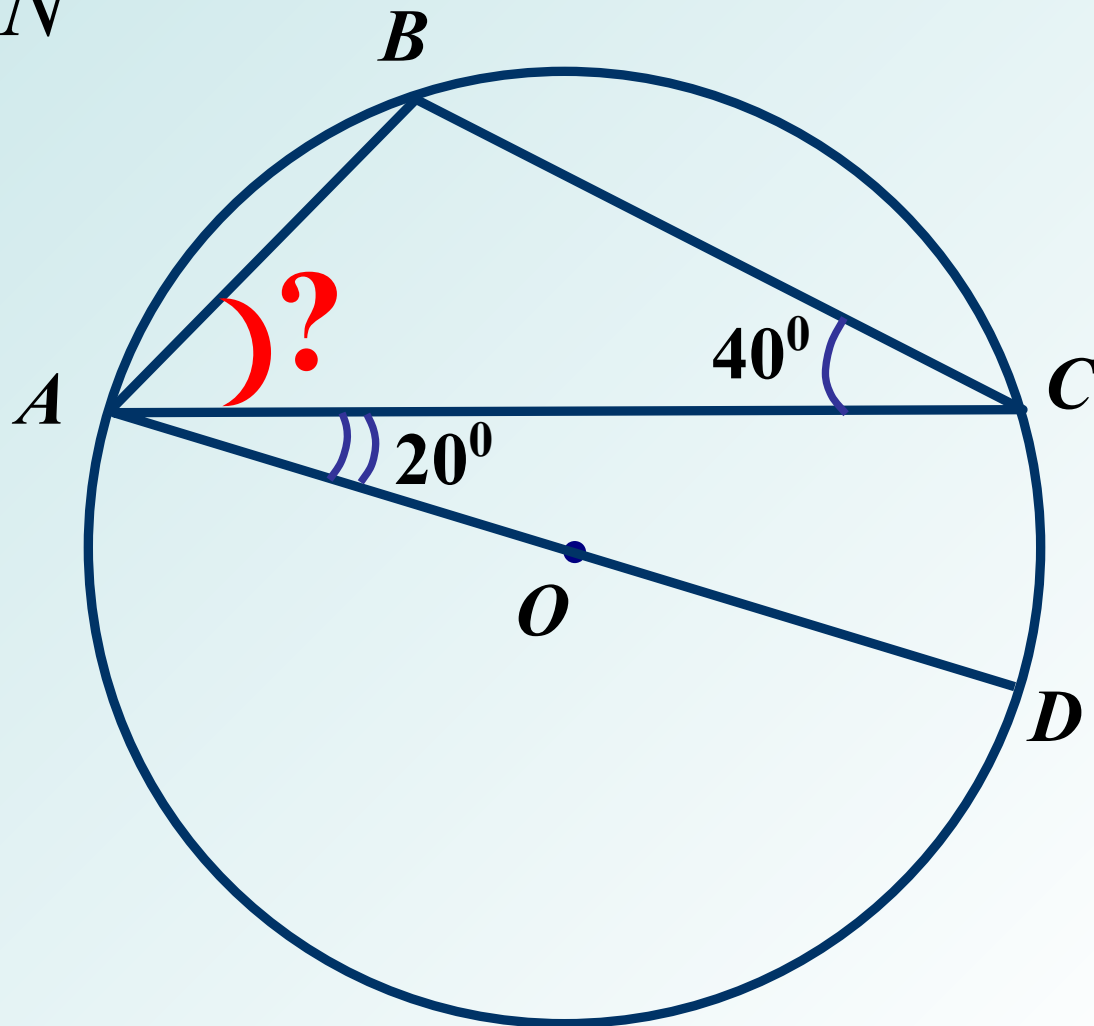
Найти: $\angle \hat{A} \hat{N} D$



26.

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

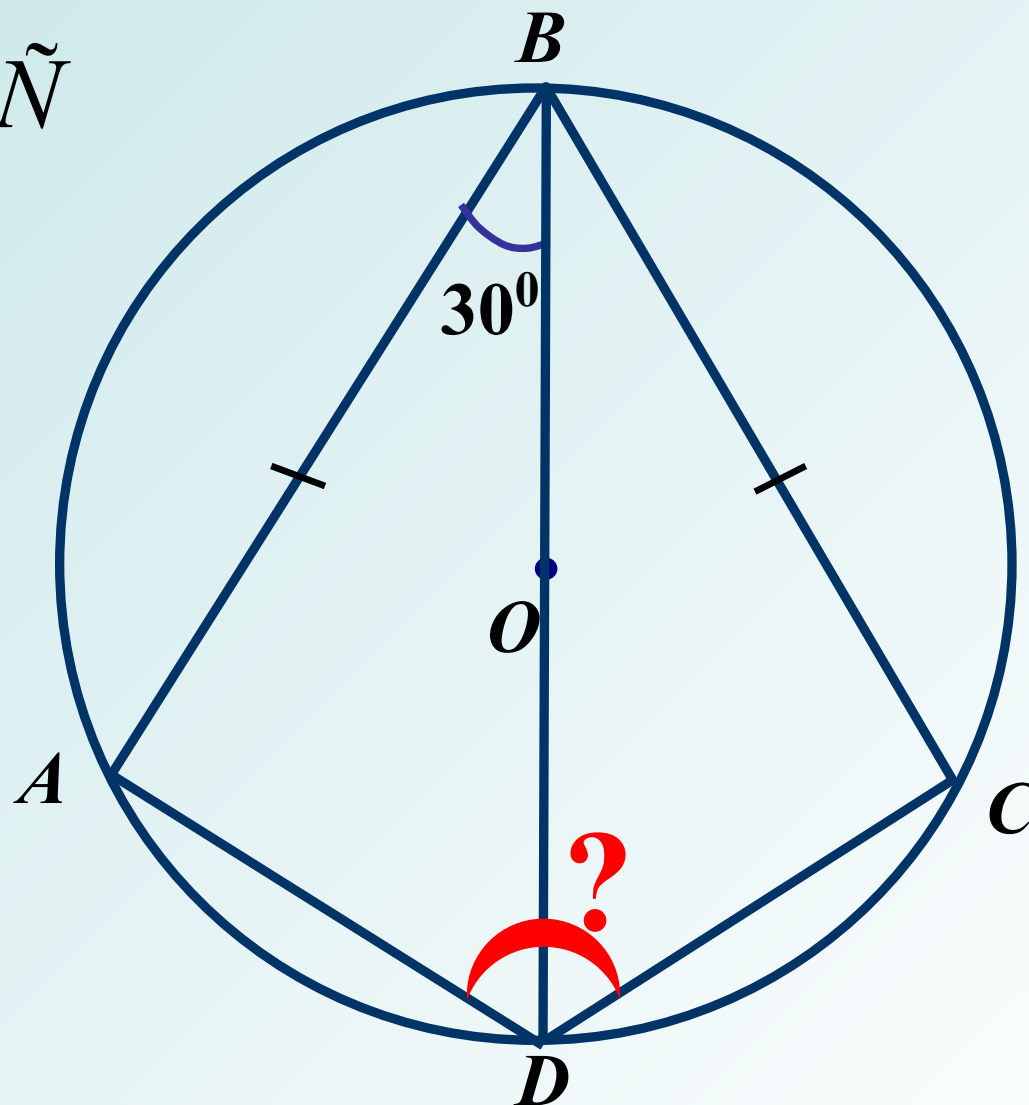
Найти: $\angle \hat{A}\hat{A}\hat{N}$



27.

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

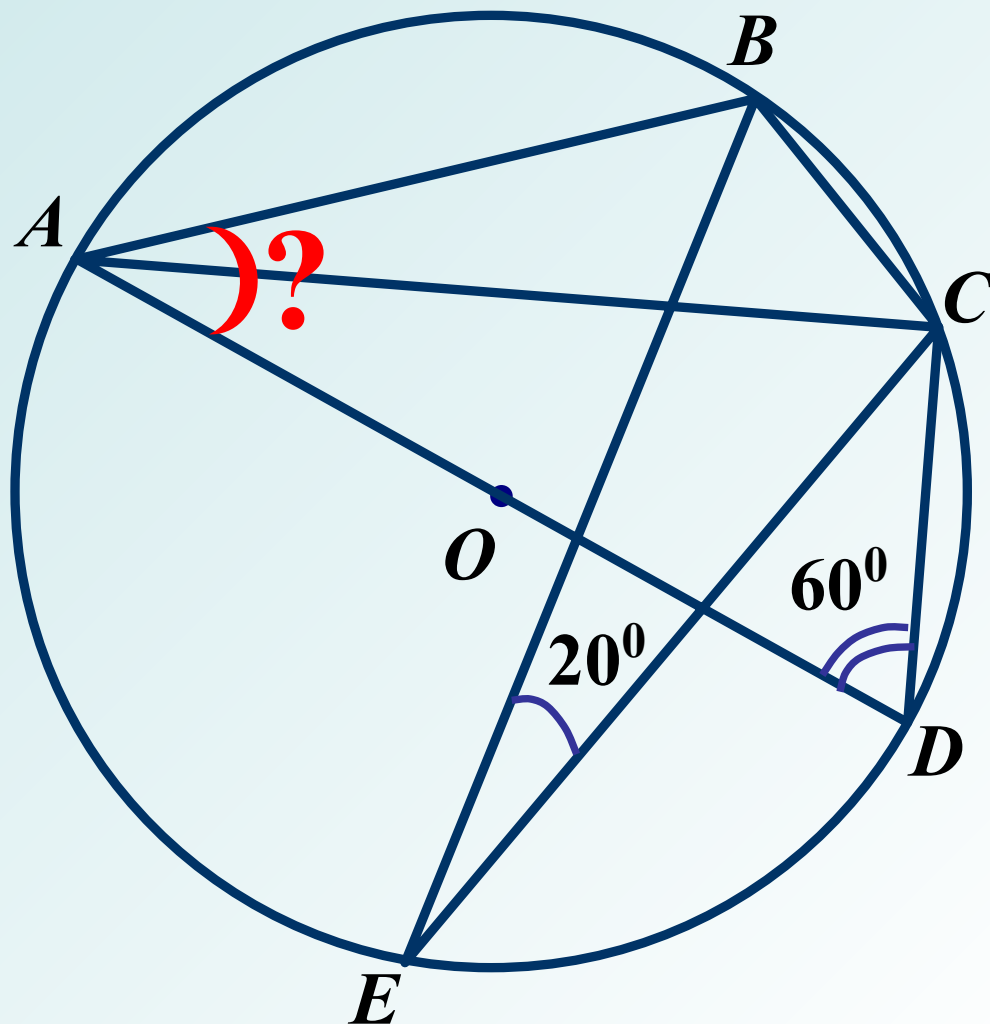
Найти: $\angle AD\tilde{N}$



28.

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

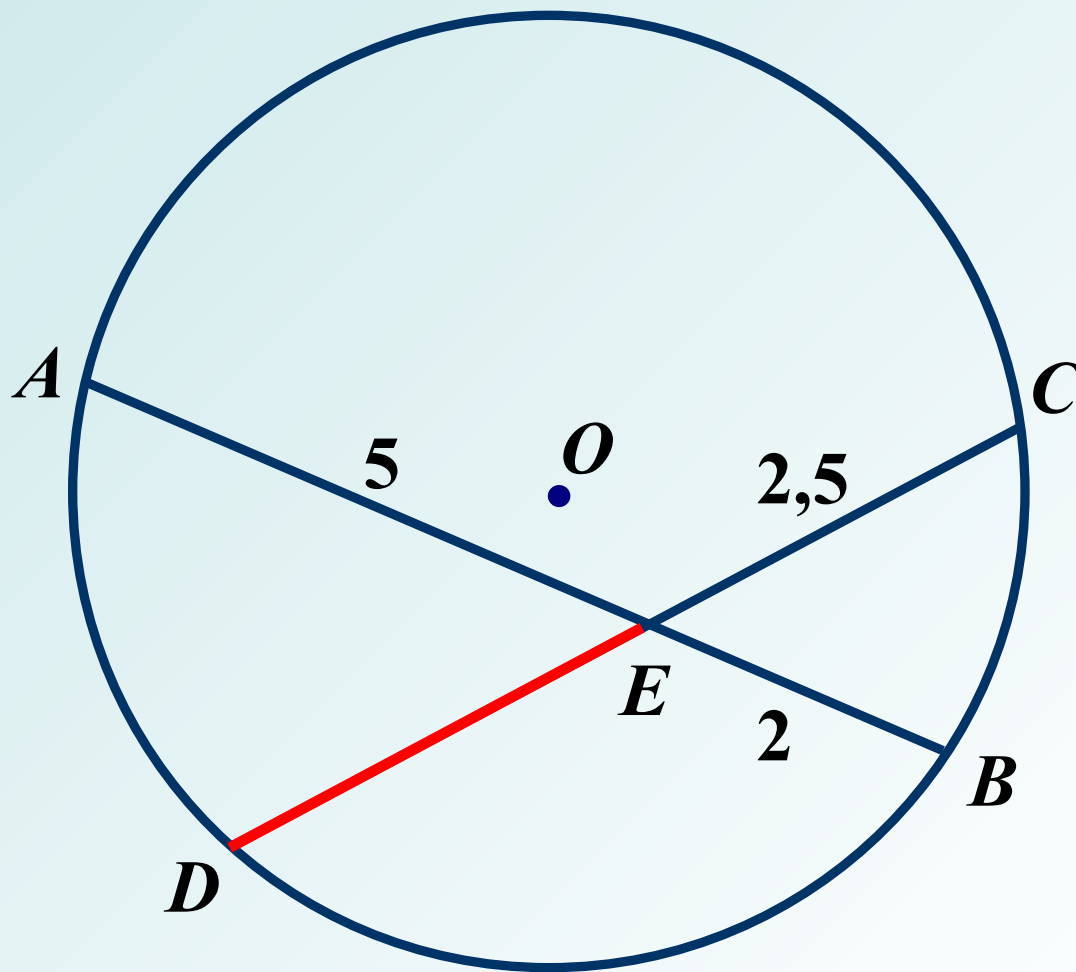
Найти: $\angle BAD$



29.

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

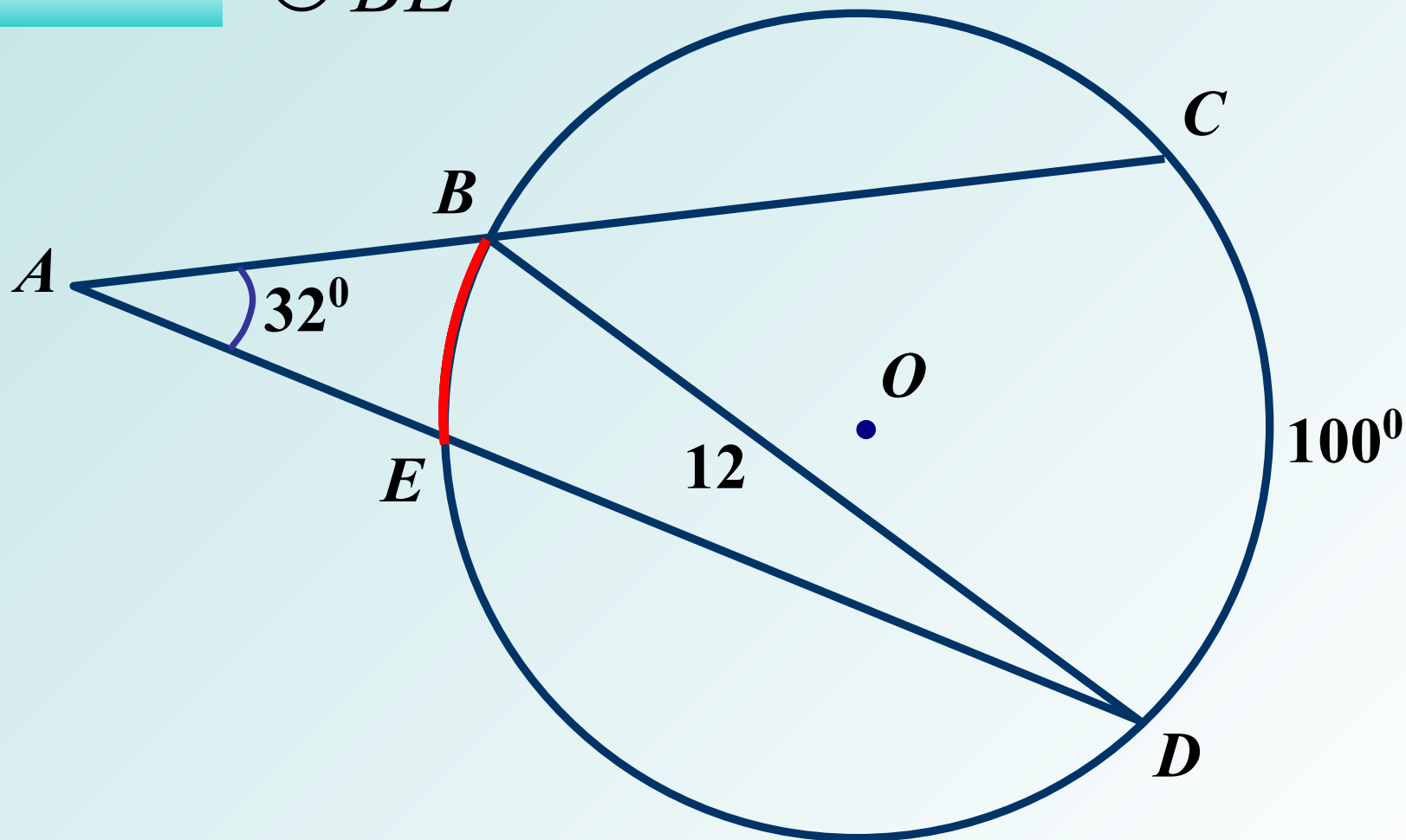
Найти: DE



30.

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

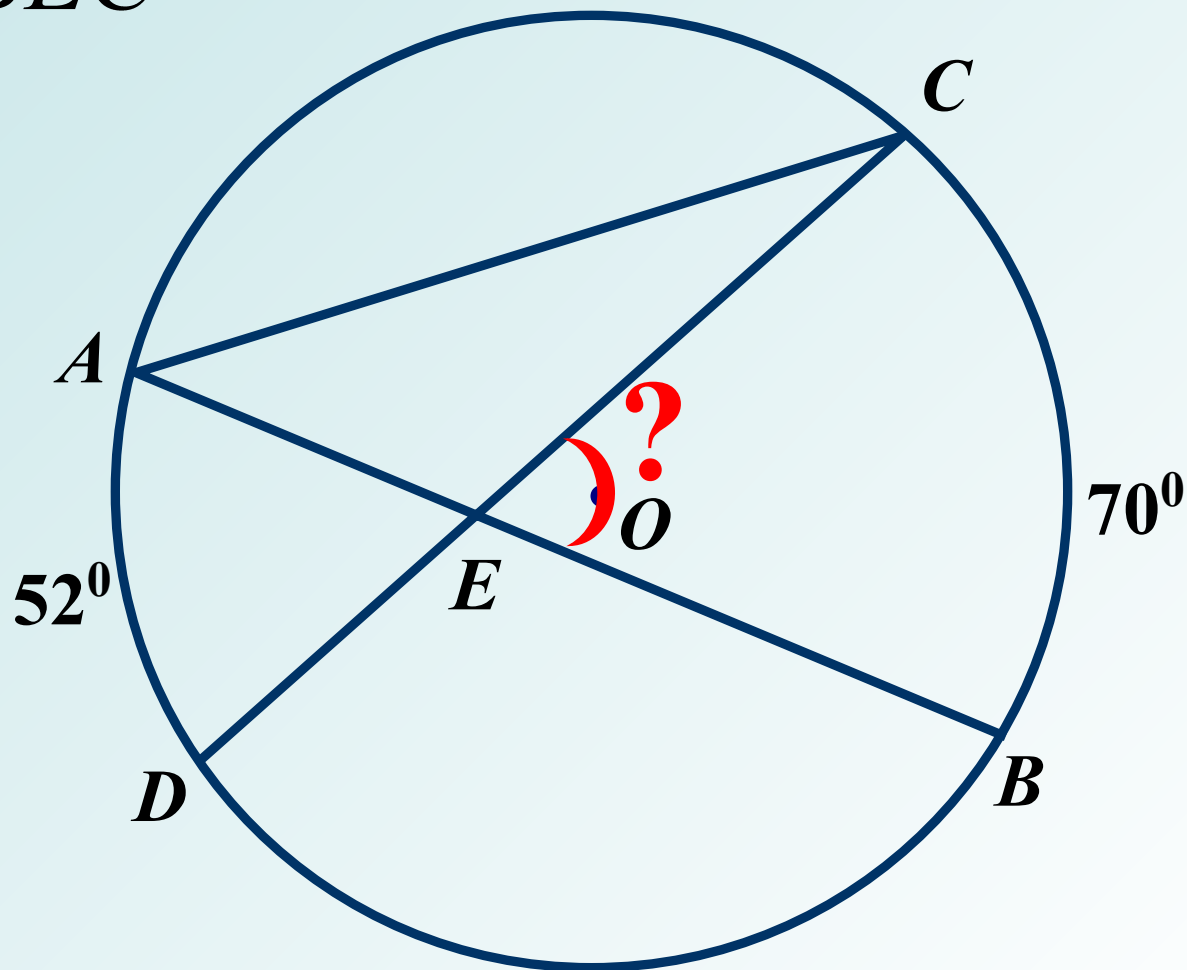
Найти: $\cup BE$



31.

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

Найти: $\angle BEC$



32.

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

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

