

*Решение задач
на готовых чертежах.*

Окружность.

*Центральные и
вписанные углы.*

Геометрия.

8 класс.

*Каратанова Марина Николаевна
МОУ СОШ №256 г.Фокино*



1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

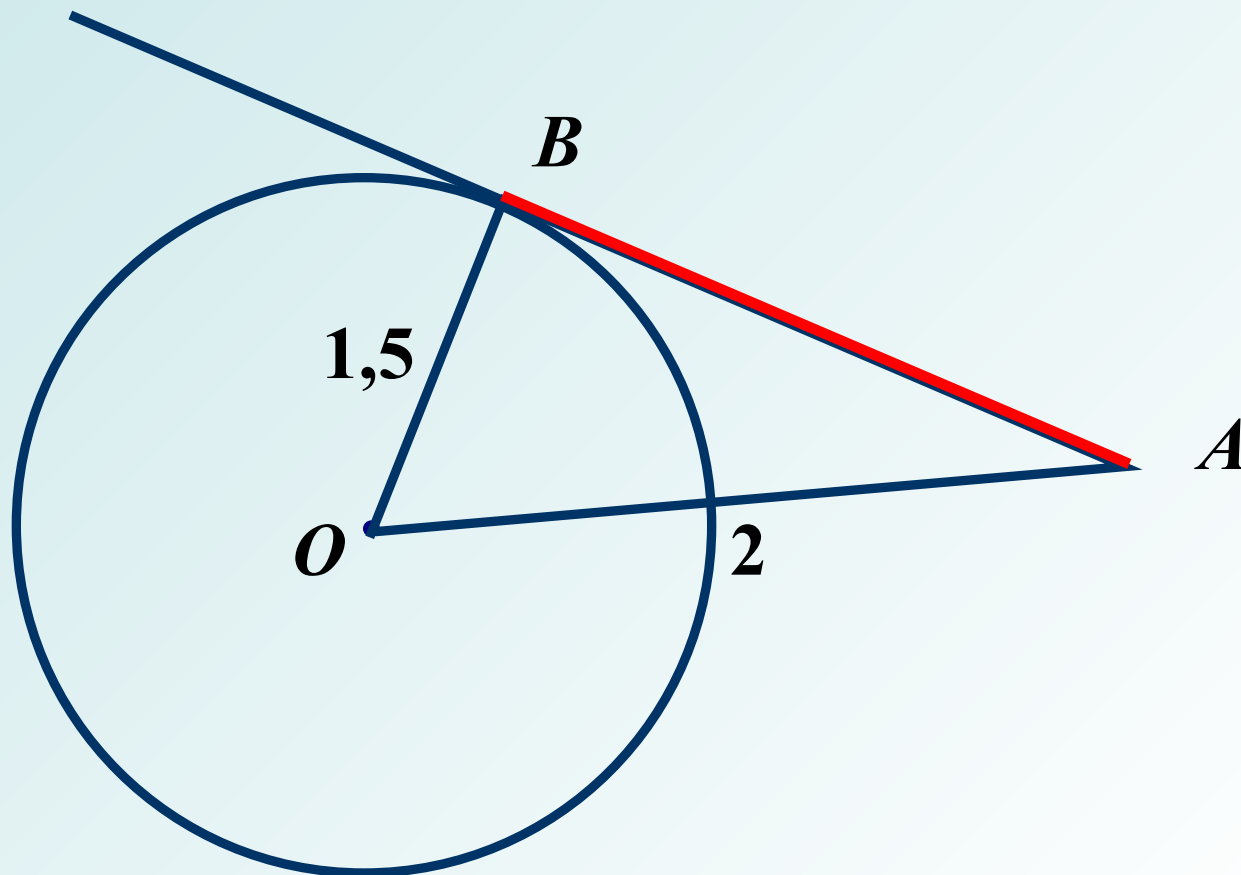
1.

Дано:

$\hat{I} \hat{e} \delta . (\hat{I} , r), \hat{A} \hat{A} - \hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{a} \hat{y}$
 $\hat{I} \hat{A} = 2 \hat{n} \hat{i}, r = 1,5 \hat{n} \hat{i}$

Найти:

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



2.

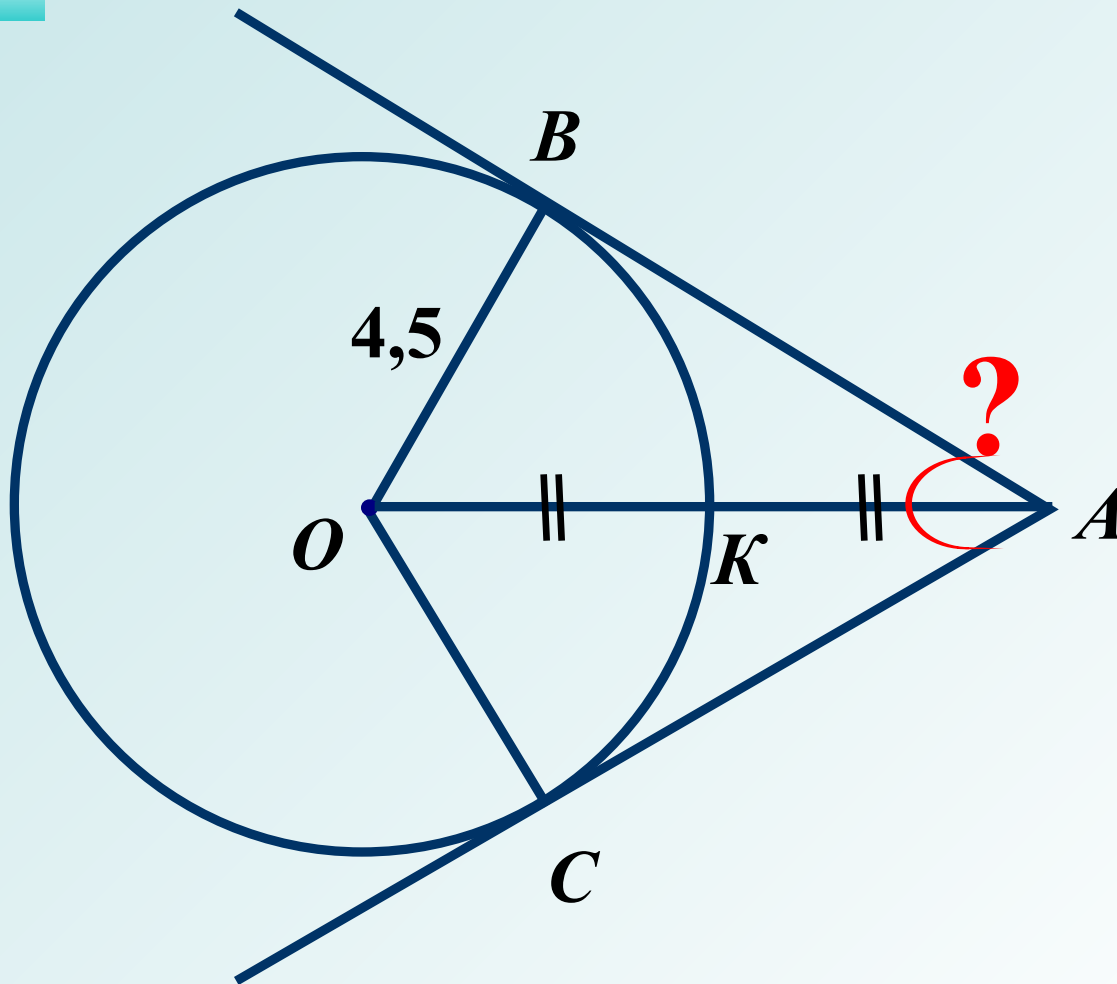
Дано:

$\hat{I} \hat{e} \hat{o} \cdot (\hat{I}, r)$

$\hat{A} \hat{A}, \hat{A} \hat{N} - \hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{u} \hat{a}$

Найти:

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



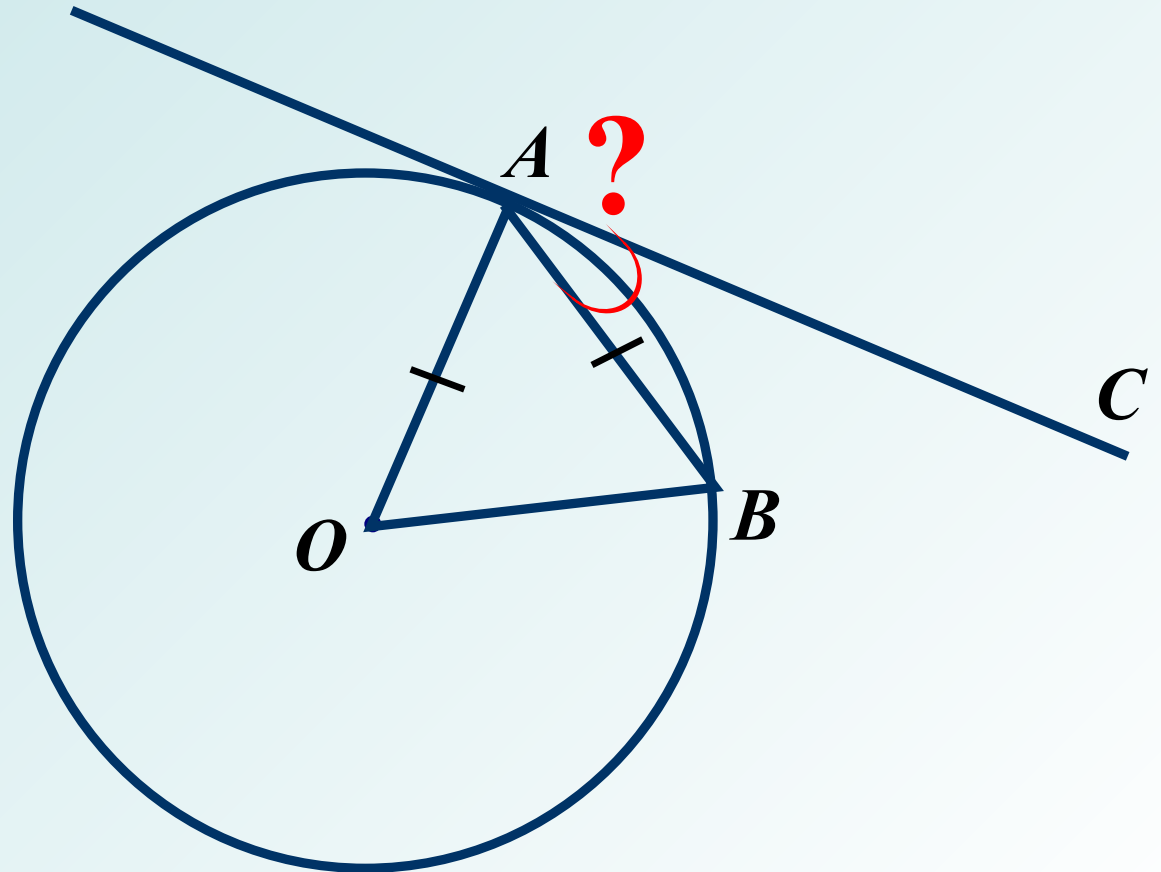
3.

Дано:

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

Найти:

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



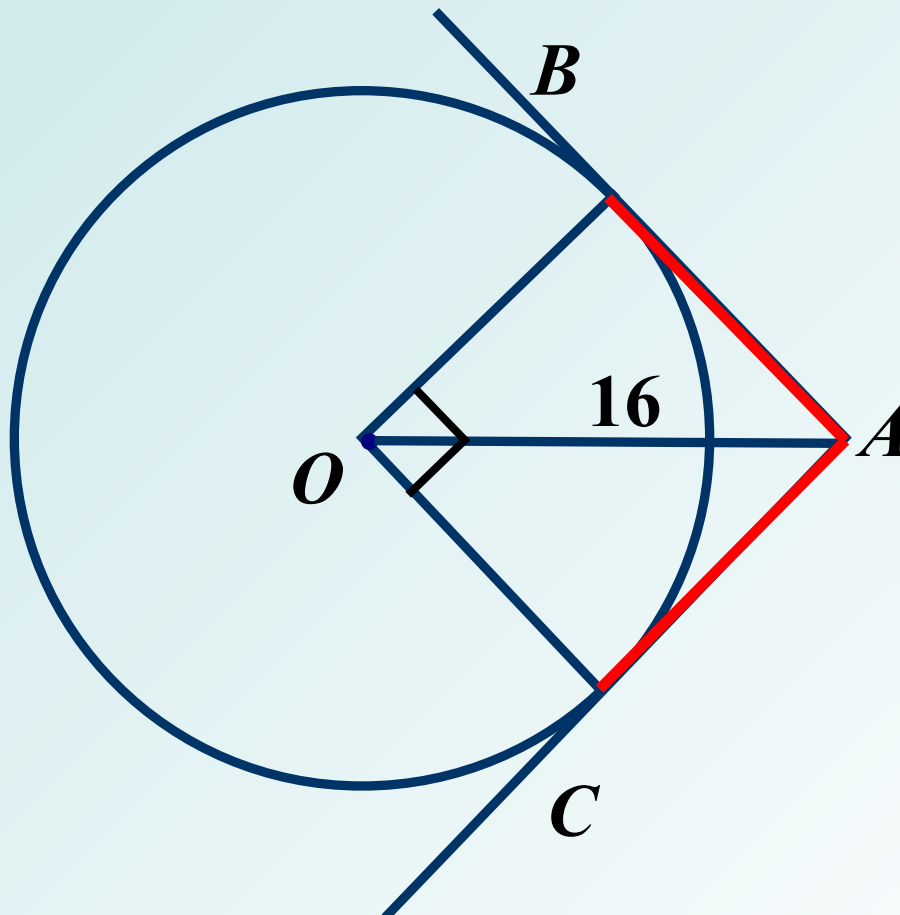
4.

Дано:

$\hat{I} \hat{e} \hat{o} \cdot (\hat{I}, \hat{I} \hat{A}), \hat{I} \hat{A} = 16$
 $\hat{A} \hat{A}, \hat{A} \hat{N} - \hat{e} \hat{a} \hat{n} \hat{o} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{u} \hat{a}$

Найти:

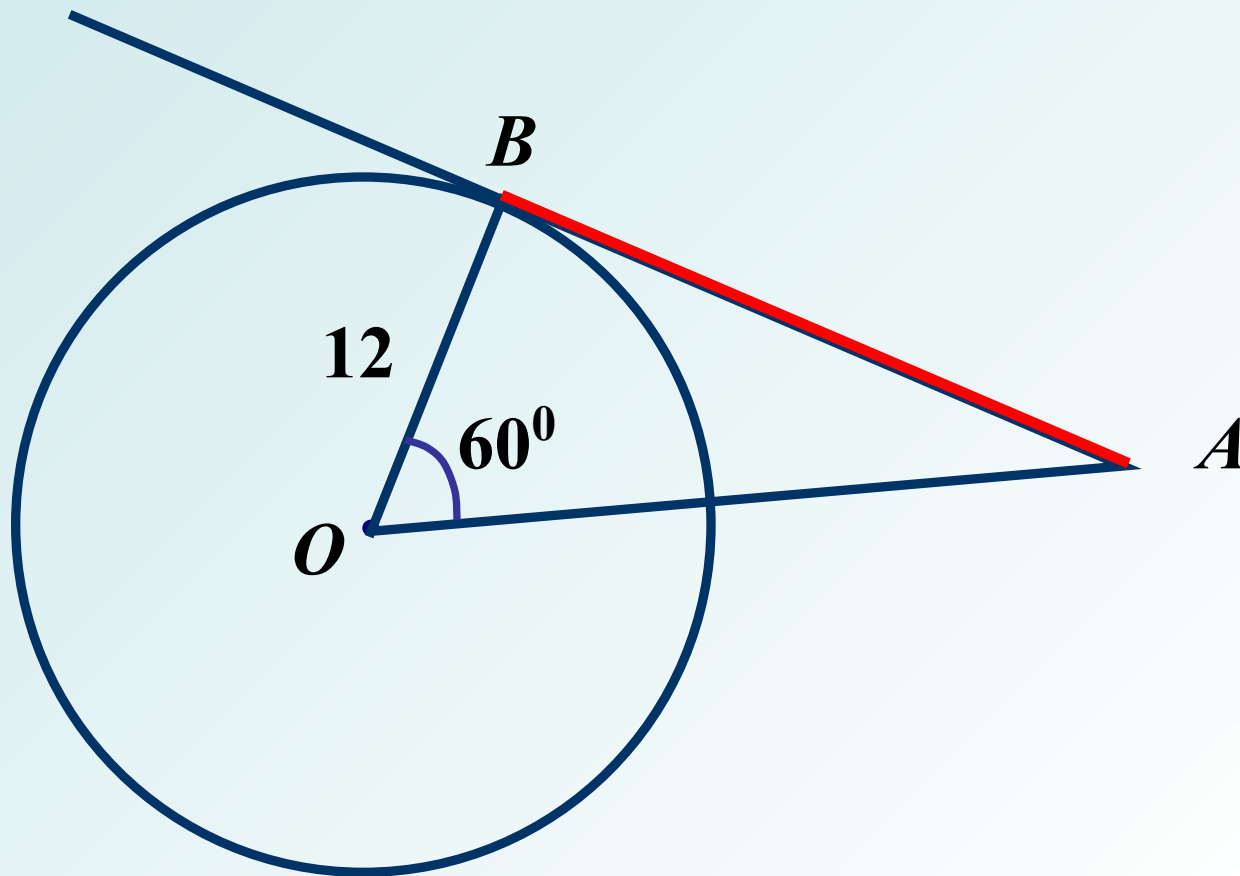
$\hat{A} \hat{A}, \hat{A} \hat{N}$



5.

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

Найти: $\hat{A} \hat{A}$



6.

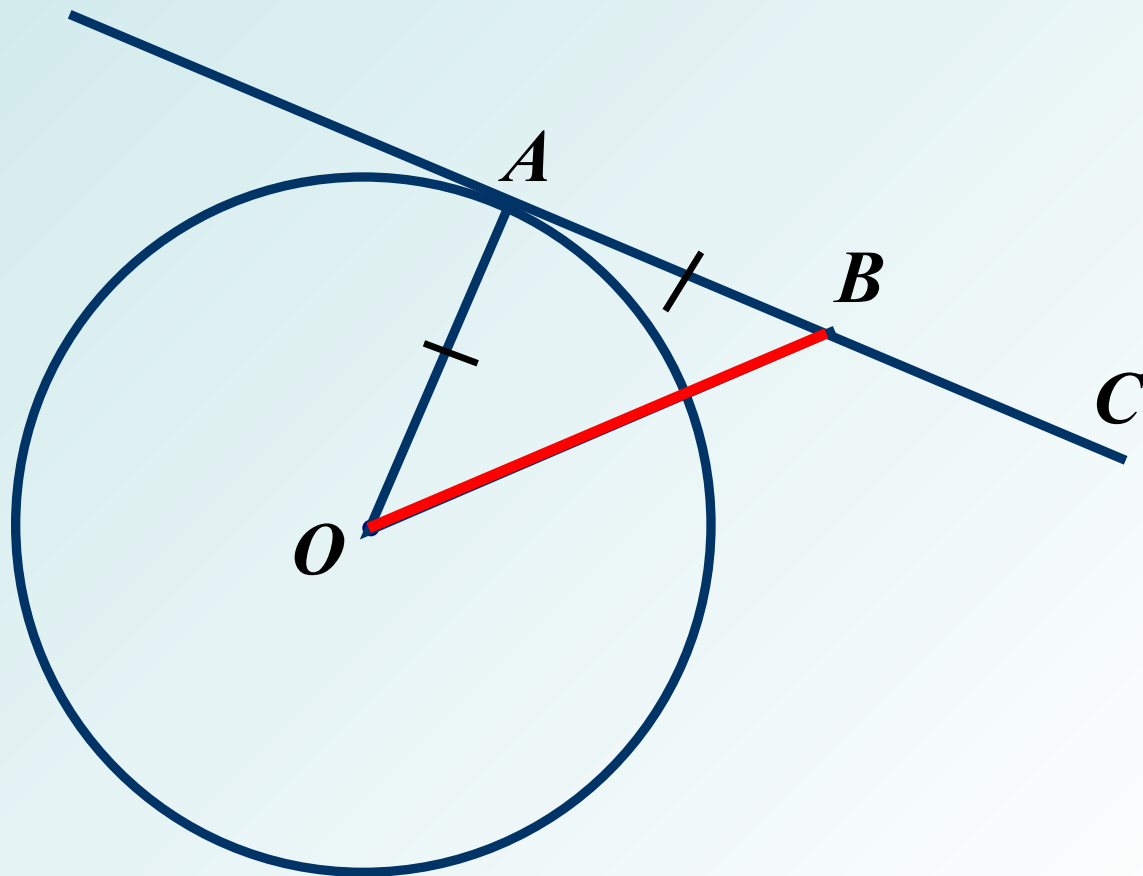
Дано:

$\hat{I} \hat{e} \hat{d} . (\hat{I} , R), R = 5$

$\hat{A} \hat{A} - \hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{a} \hat{y}$

Найти:

$O\hat{A}$



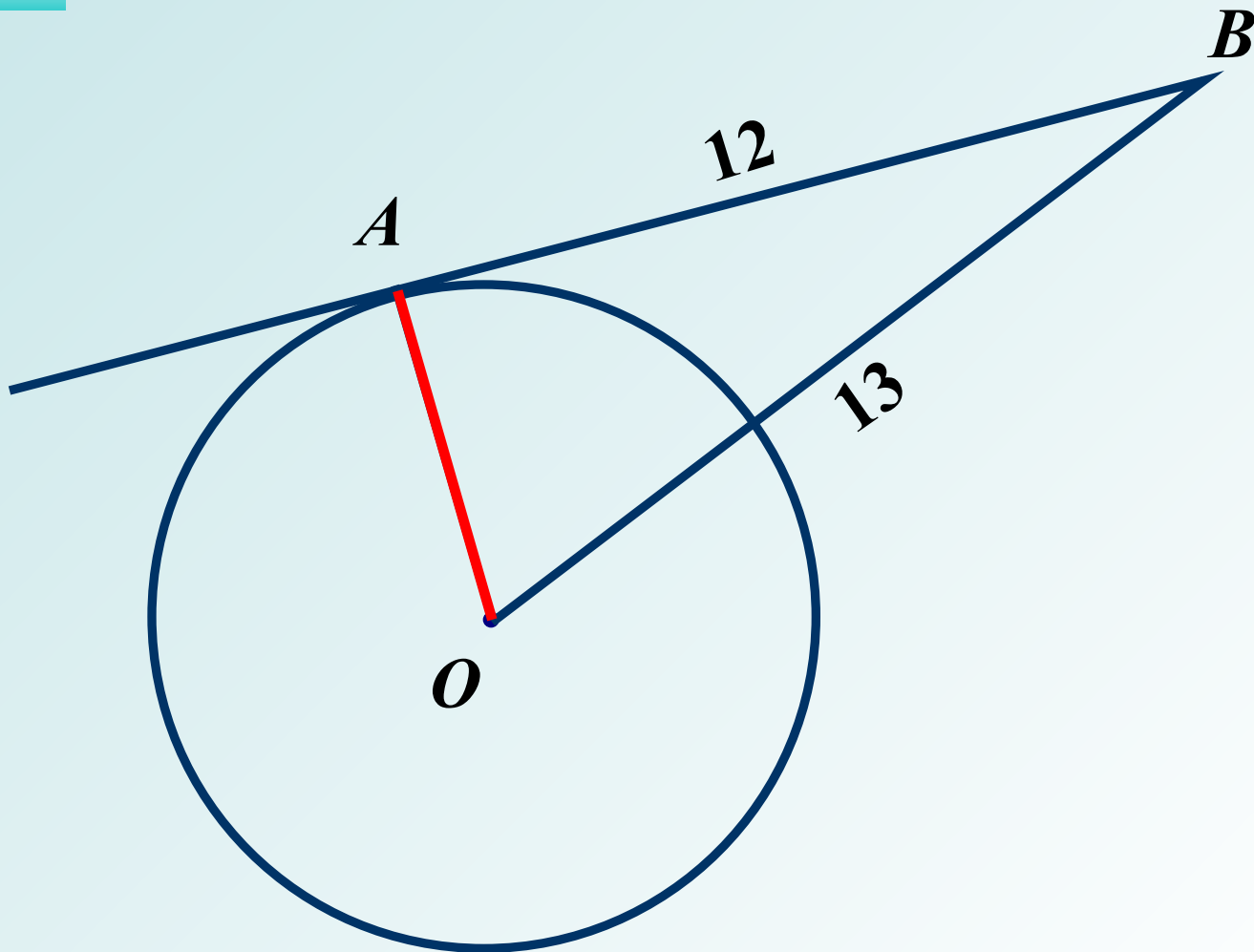
7.

Дано:

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

Найти:

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



8.

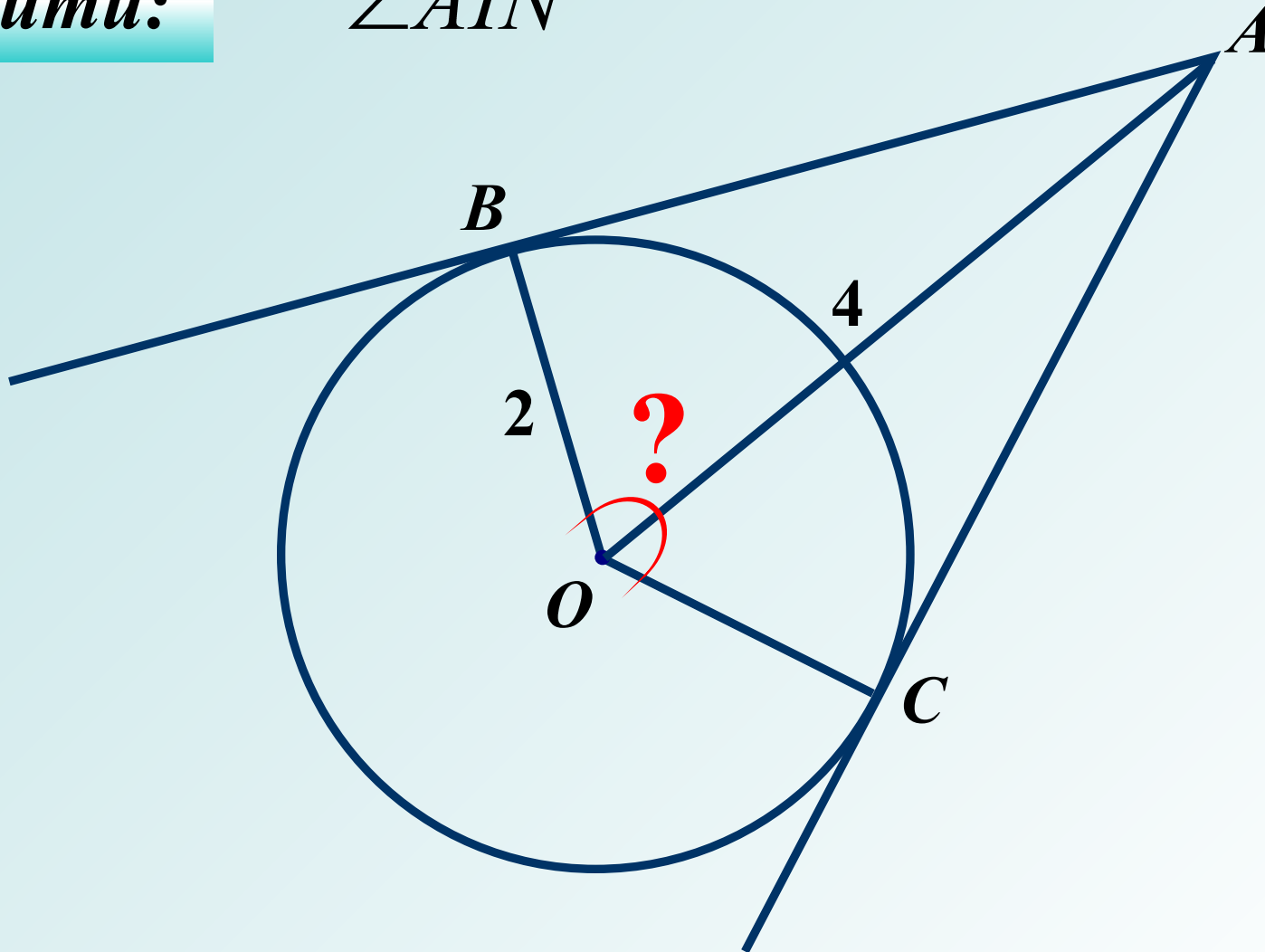
Дано:

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

$\hat{A}A, \hat{A}N$ – $\hat{e}a\tilde{n}a\hat{o}a\hat{e}i\hat{u}i\hat{u} \hat{a}$

Найти:

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



9.

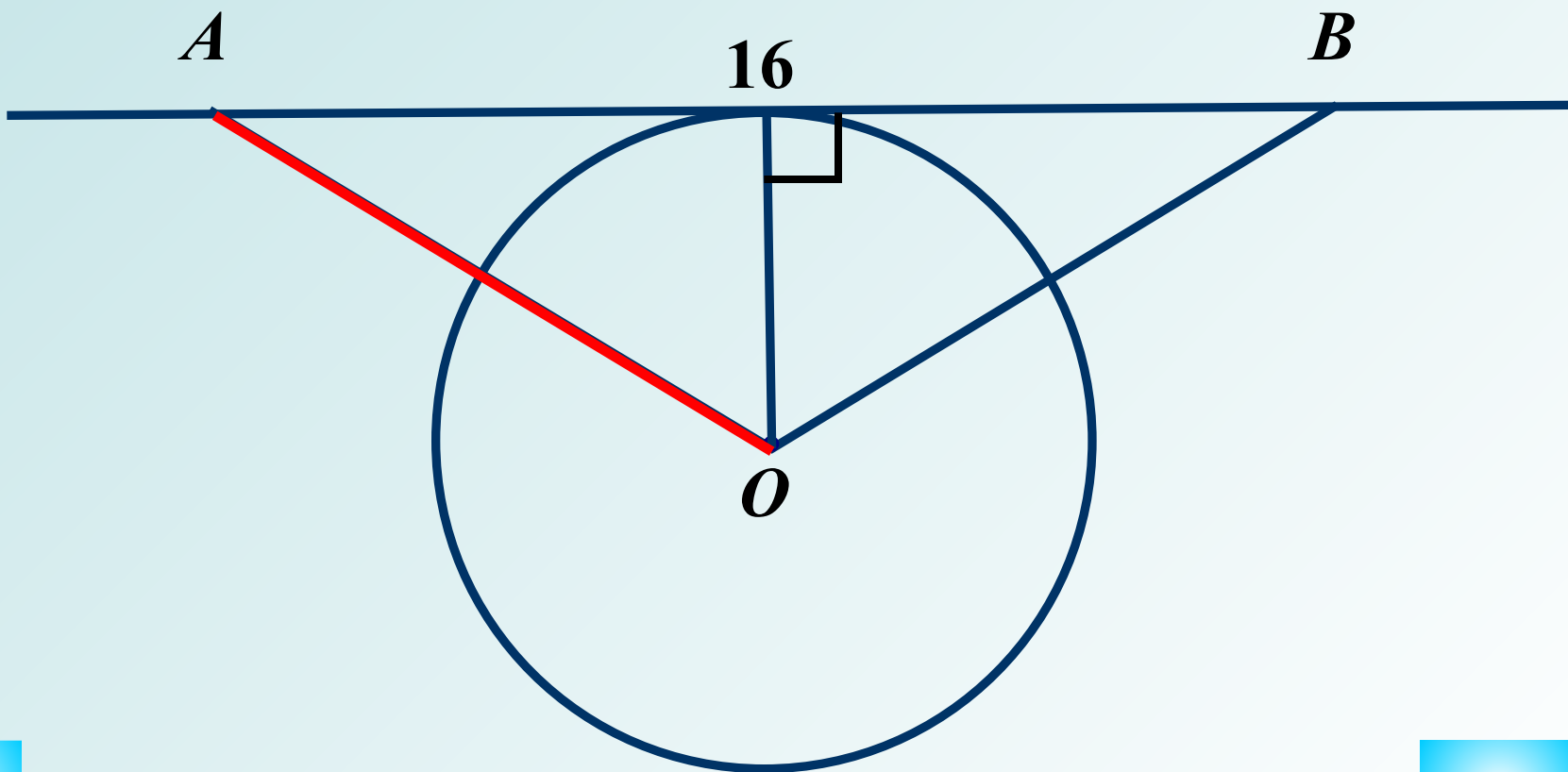
Дано:

$\hat{I} \hat{e} \hat{d} . (\hat{I} , R), R = 6$

$\hat{A} \hat{A} - \hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{a} \hat{y} , \hat{I} \hat{A} = \hat{I} \hat{A}$

Найти:

$O \hat{A}$



Доп.

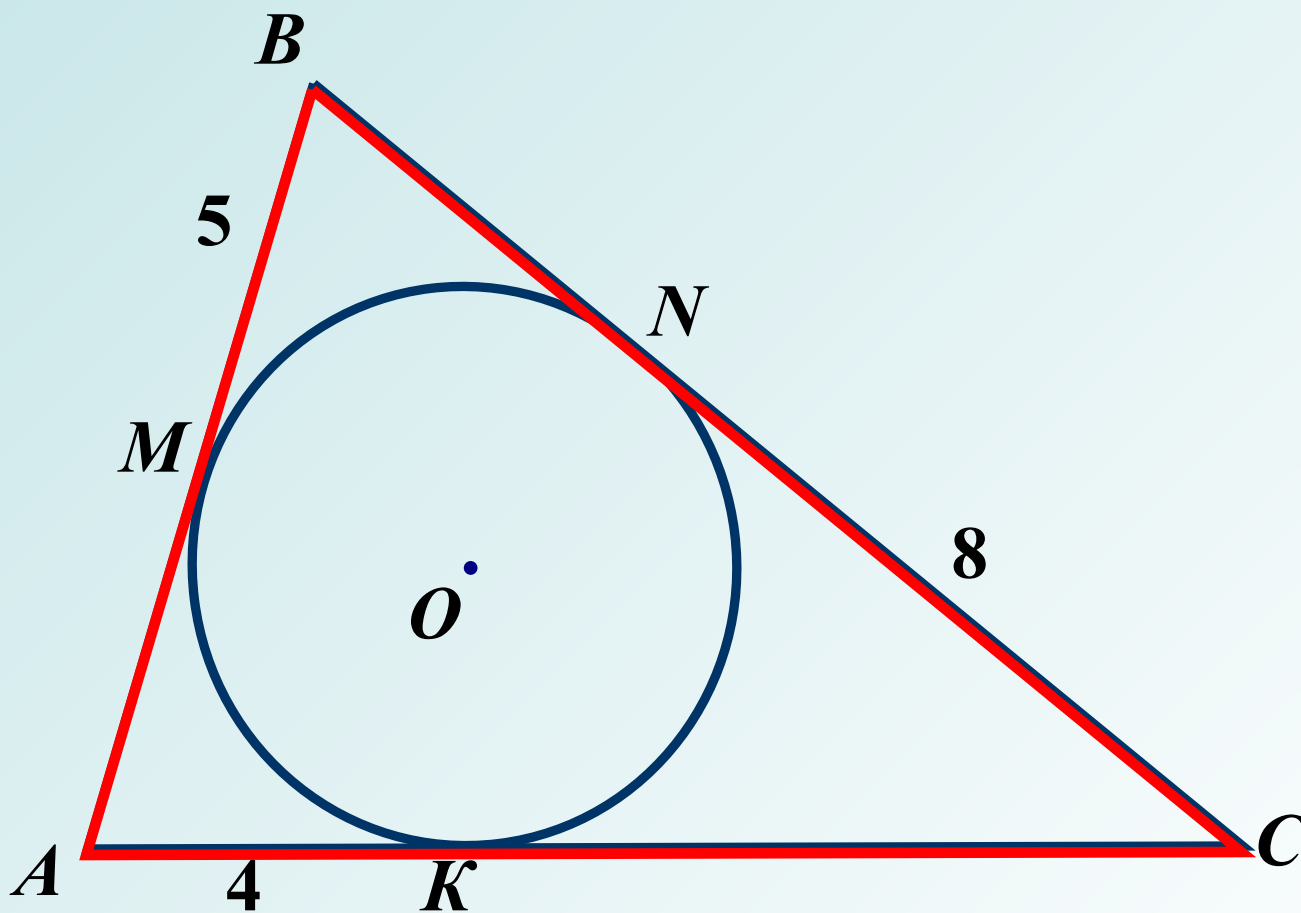
10.

Дано:

I, N, K – $o\hat{i}\div e\hat{e}$ $e\hat{a}\tilde{n}\hat{a}i\hat{e}\hat{y}$

Найти:

P_{ABC}



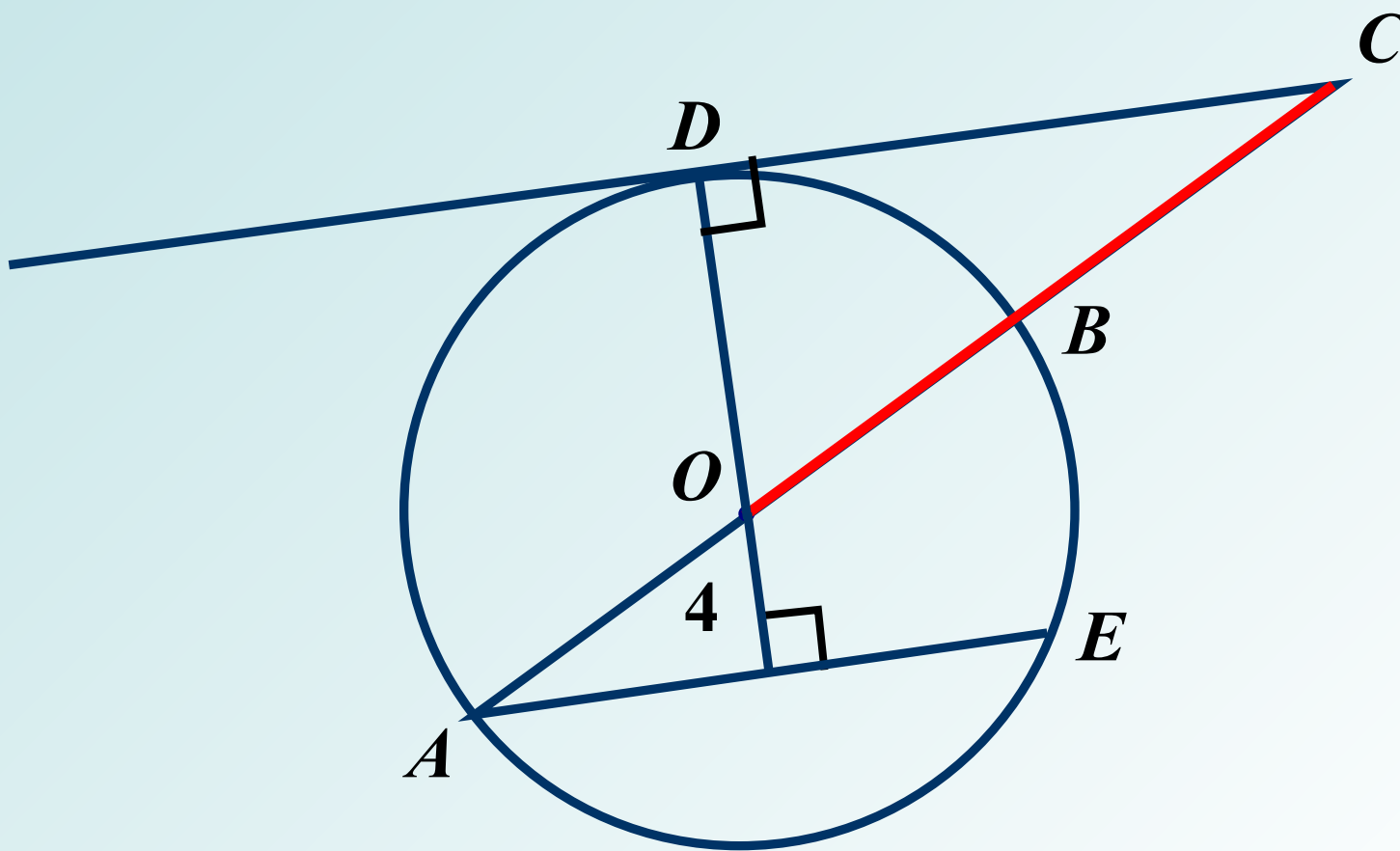
11.

Дано:

$\hat{I} \hat{e} \hat{o} (\hat{I}, \hat{I} \hat{A}), \hat{A} \hat{A} = 10$
 $CD - \hat{e} \hat{a} \hat{n} \hat{a} \hat{o} \hat{a} \hat{e} \hat{i} \hat{i} \hat{a} \hat{y}, \hat{A} \hat{E} \parallel \hat{C} \hat{D}$

Найти:

OC



Доп.

12.

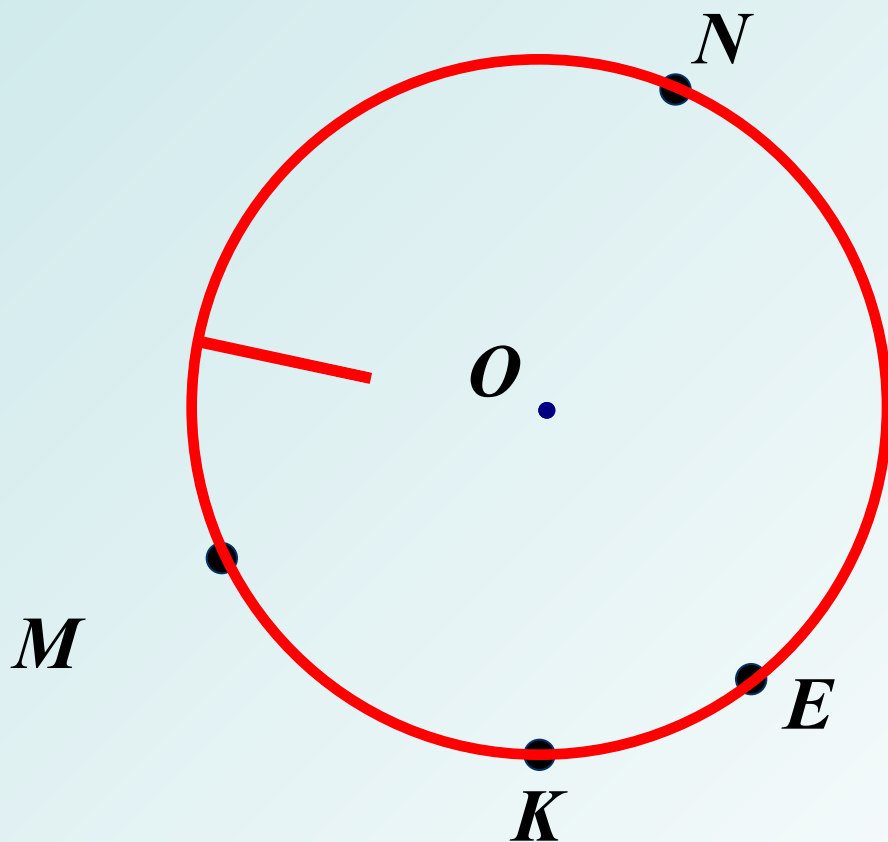
Дано:

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

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

Найти:

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



13.

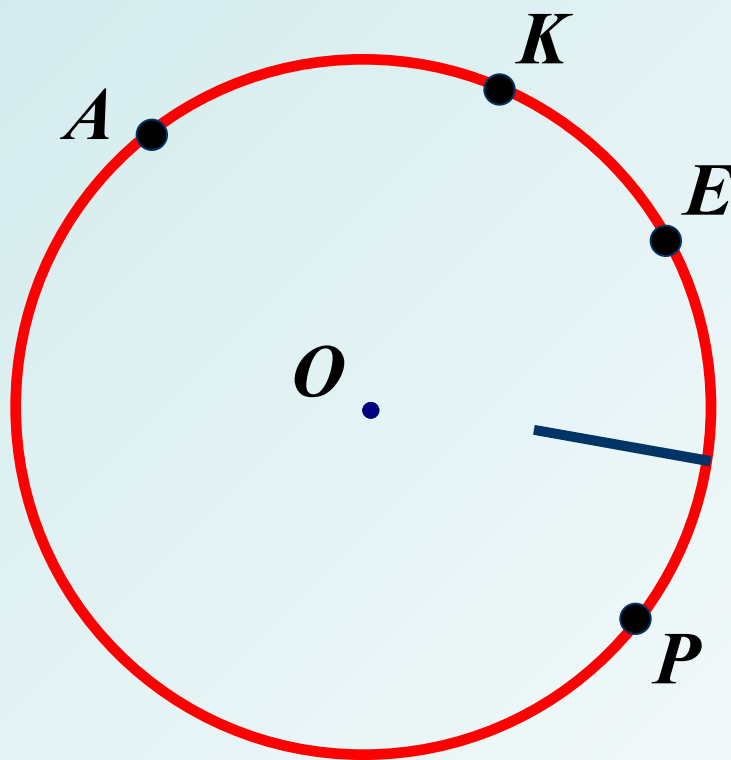
Дано:

$\hat{I} \hat{e} \hat{D} \text{ } (\hat{I}, R)$

$\cup \hat{A} \hat{E} \hat{A} < \cup \hat{A} \hat{D} \hat{E} \text{ } \hat{a} \text{ } 140^{\circ}$

Найти:

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



14.

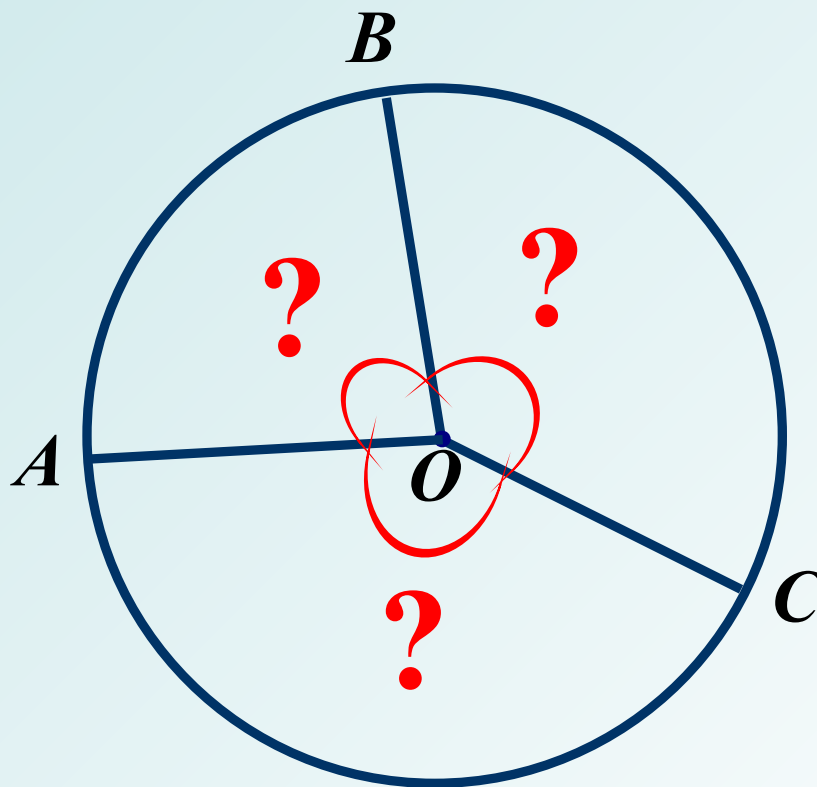
Дано:

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

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

Найти:

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



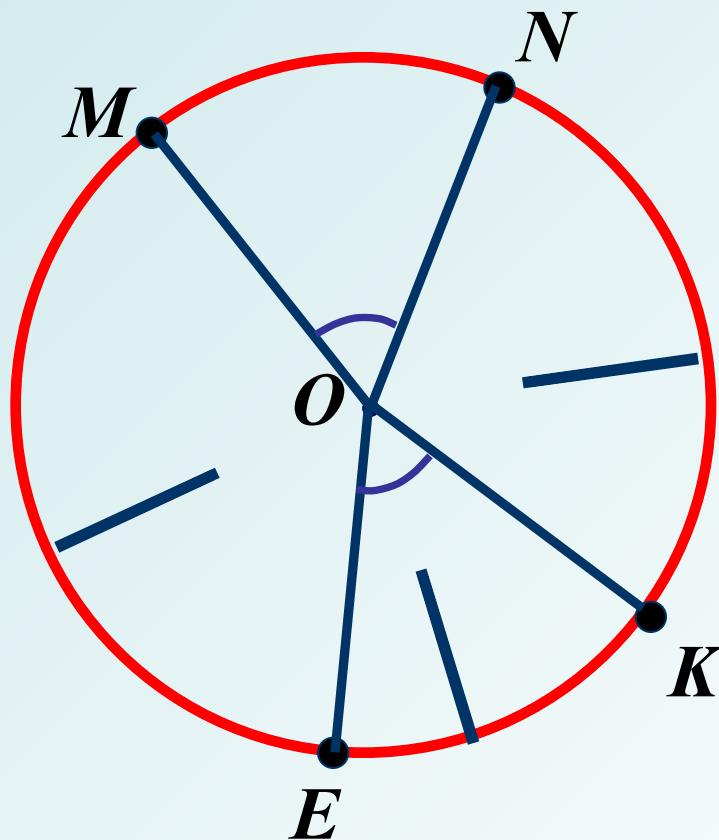
15.

Дано: $\hat{I}e\delta$ (\hat{I}, R)

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

Найти:

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

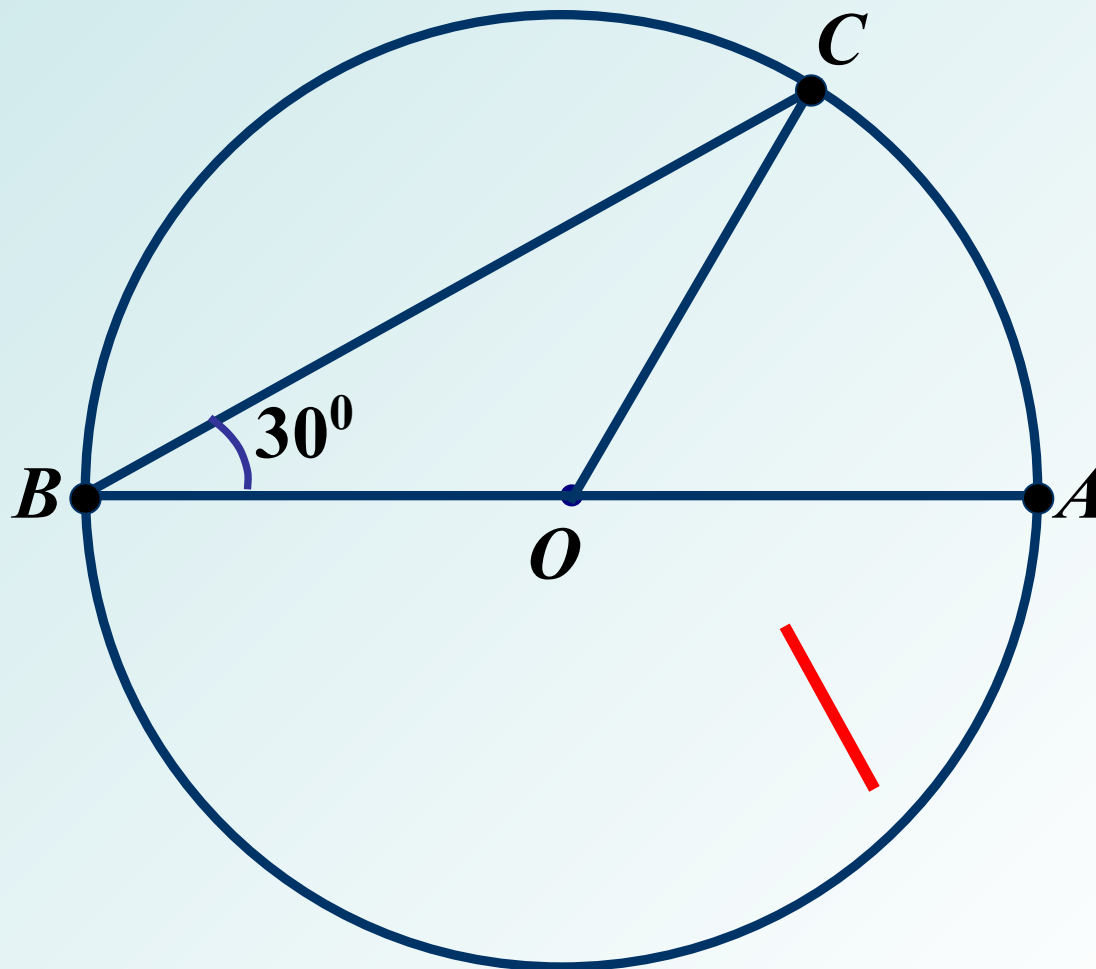


16.

Дано: $\hat{I}e\delta .(\hat{I} , R)$

Найти:

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

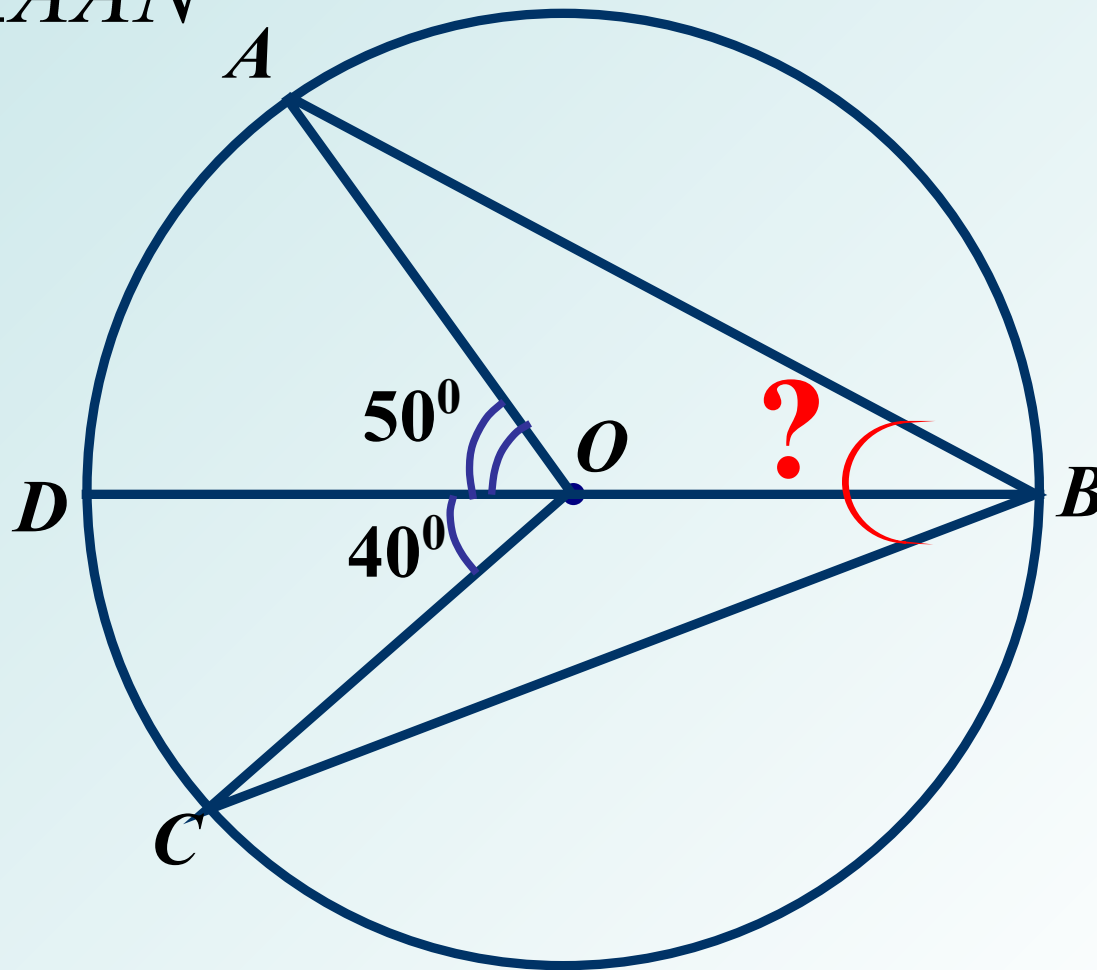


17.

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

Найти:

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



18.

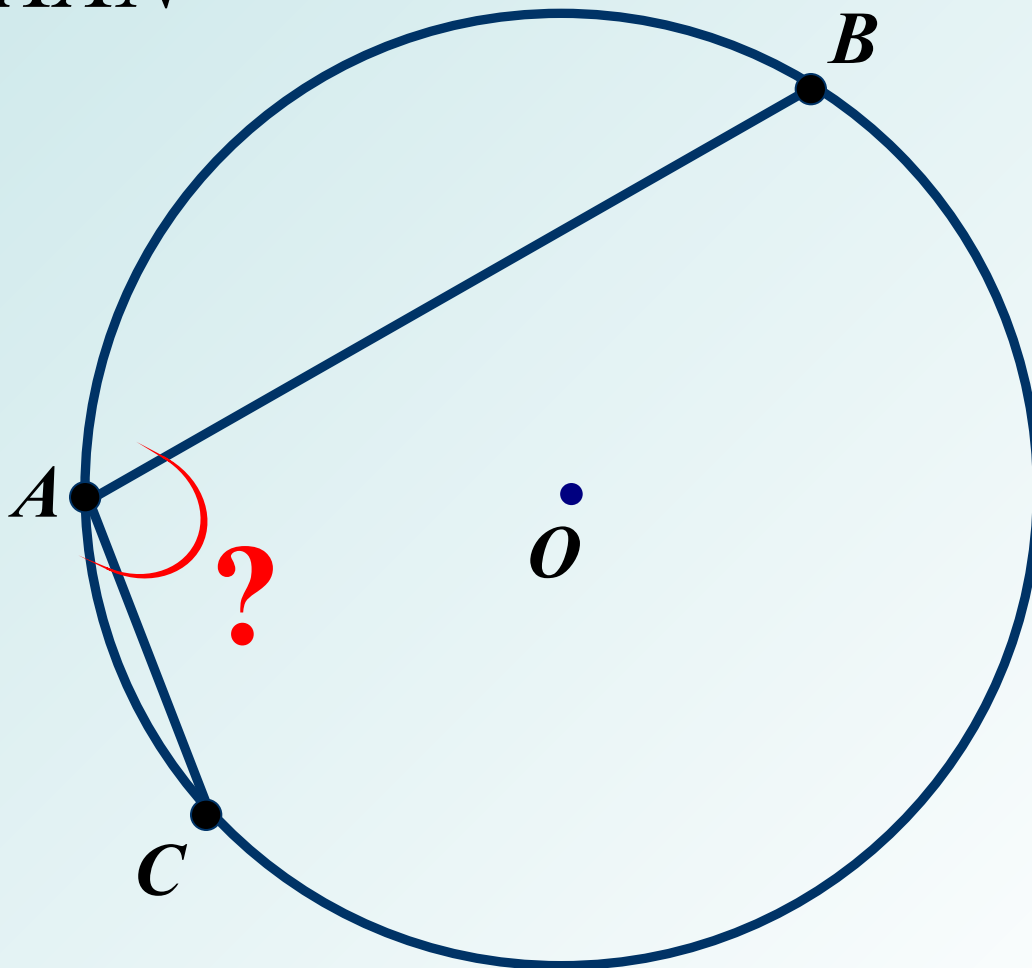
Дано:

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

$\cup \hat{A} \hat{N} = 43^\circ, \cup \hat{A} \hat{A} = 115^\circ$

Найти:

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



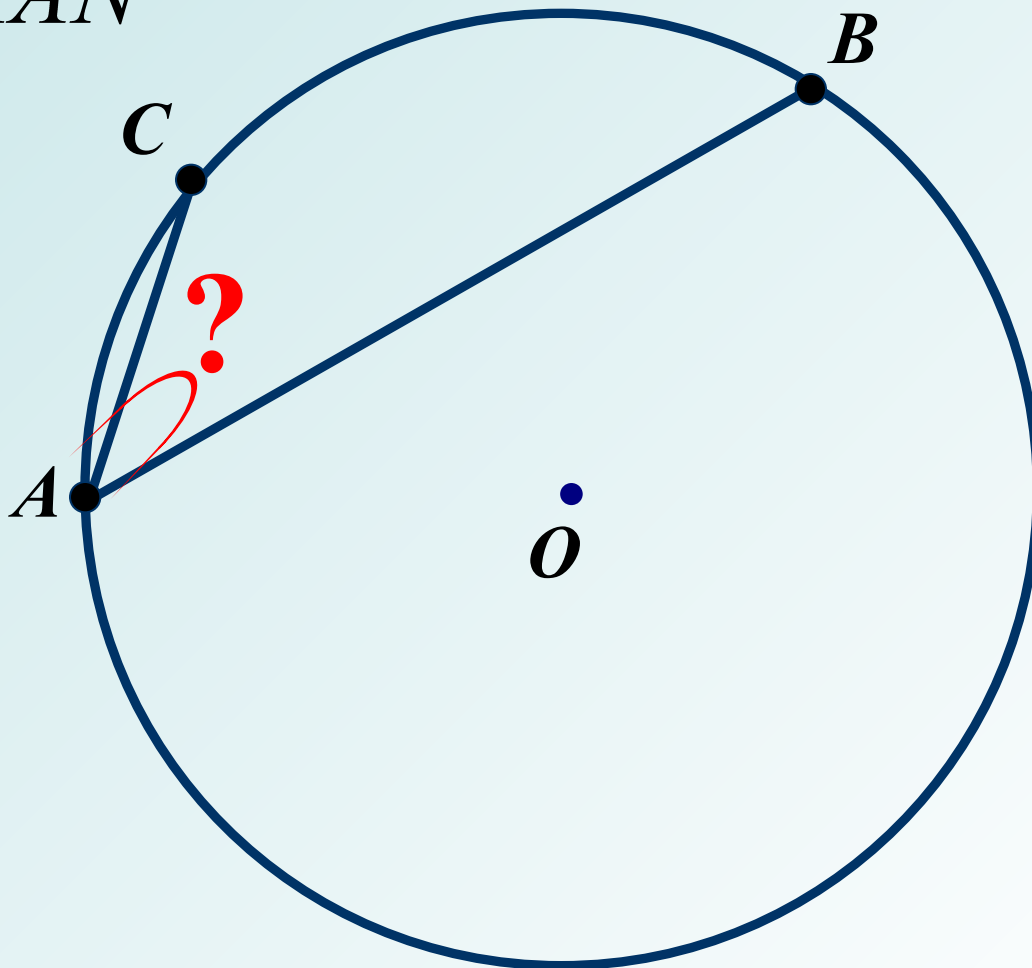
19.

Дано:

$$\hat{I} \hat{e} \hat{o} . (\hat{I} , R) \\ \cup \hat{A} \hat{N} = 43^{\circ}, \cup \hat{A} \hat{A} = 115^{\circ}$$

Найти:

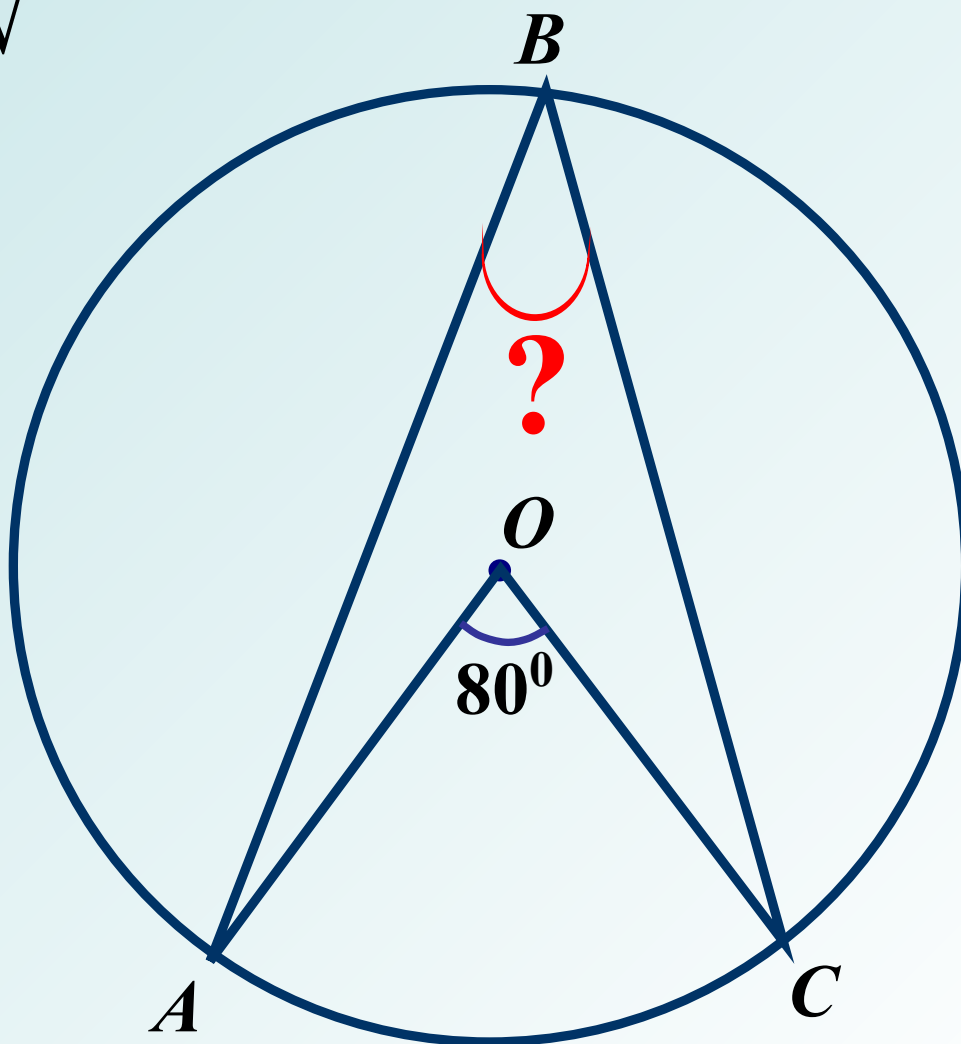
$$\angle \hat{A} \hat{A} \hat{N}$$



20.

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

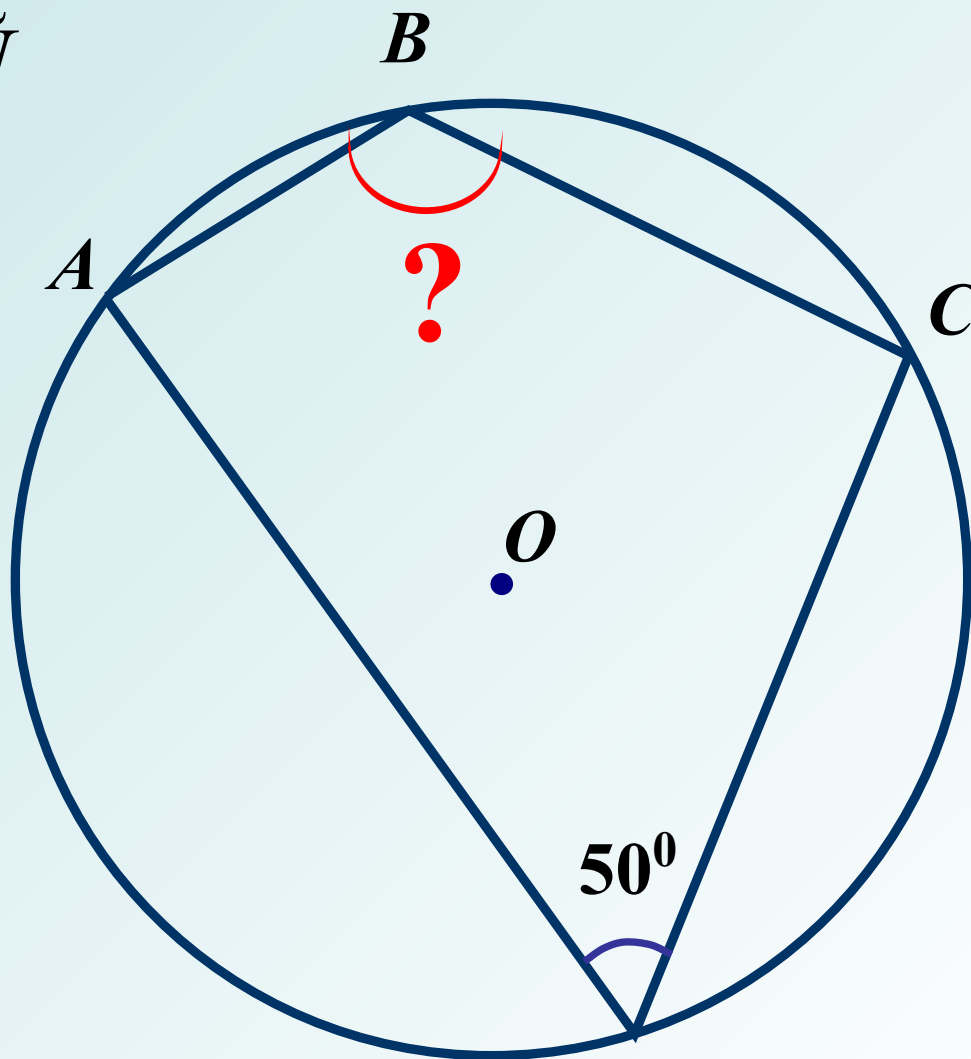
Найти: $\angle A \hat{A} \tilde{N}$



21.

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

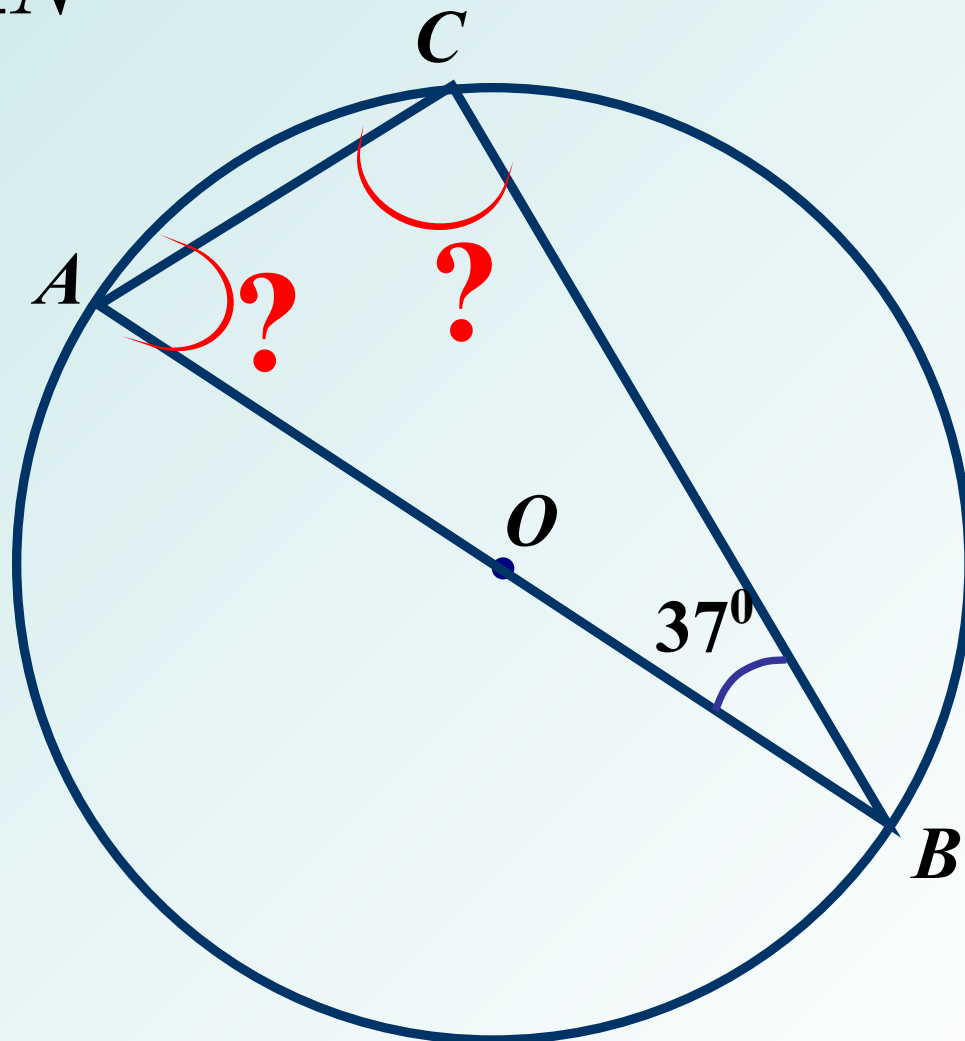
Найти: $\angle A \hat{A} \tilde{N}$



22.

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

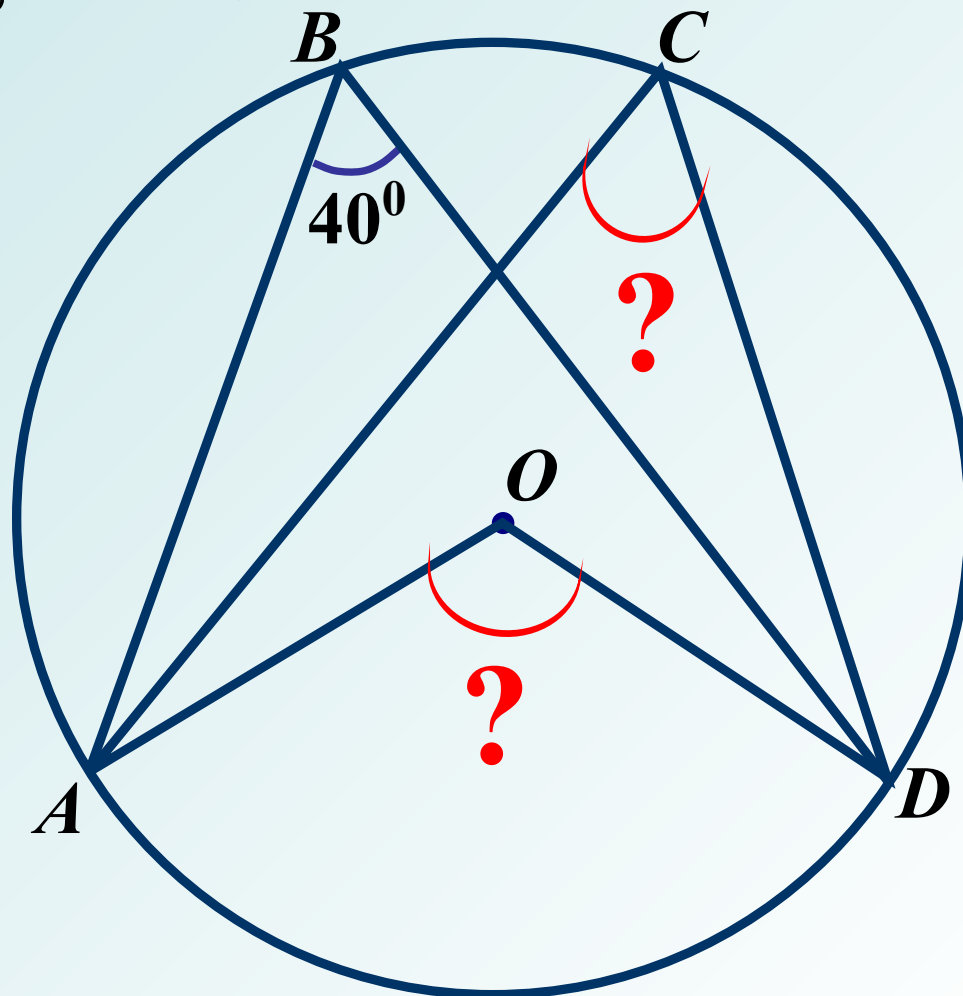
Найти: $\angle\hat{A}, \angle\hat{N}$



23.

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

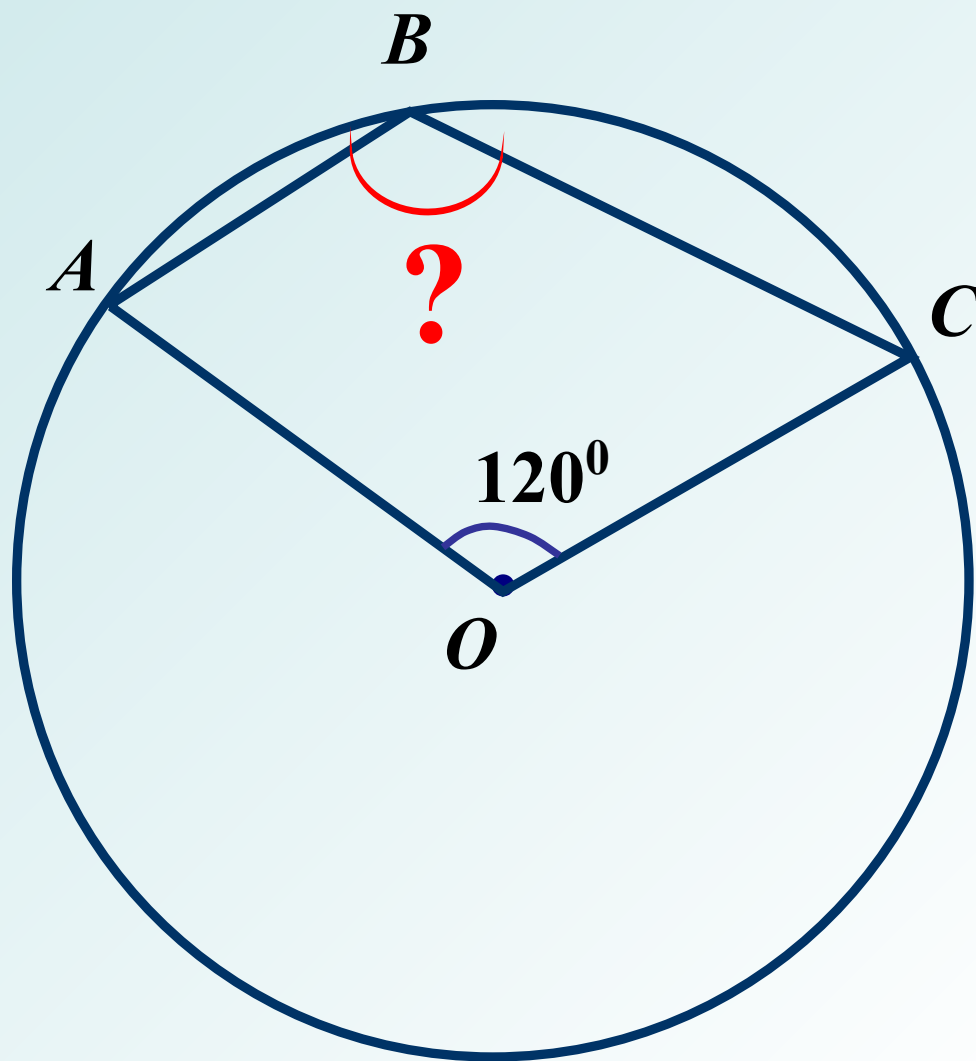
Найти: $\angle AOD, \angle A\tilde{N}D$



24.

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

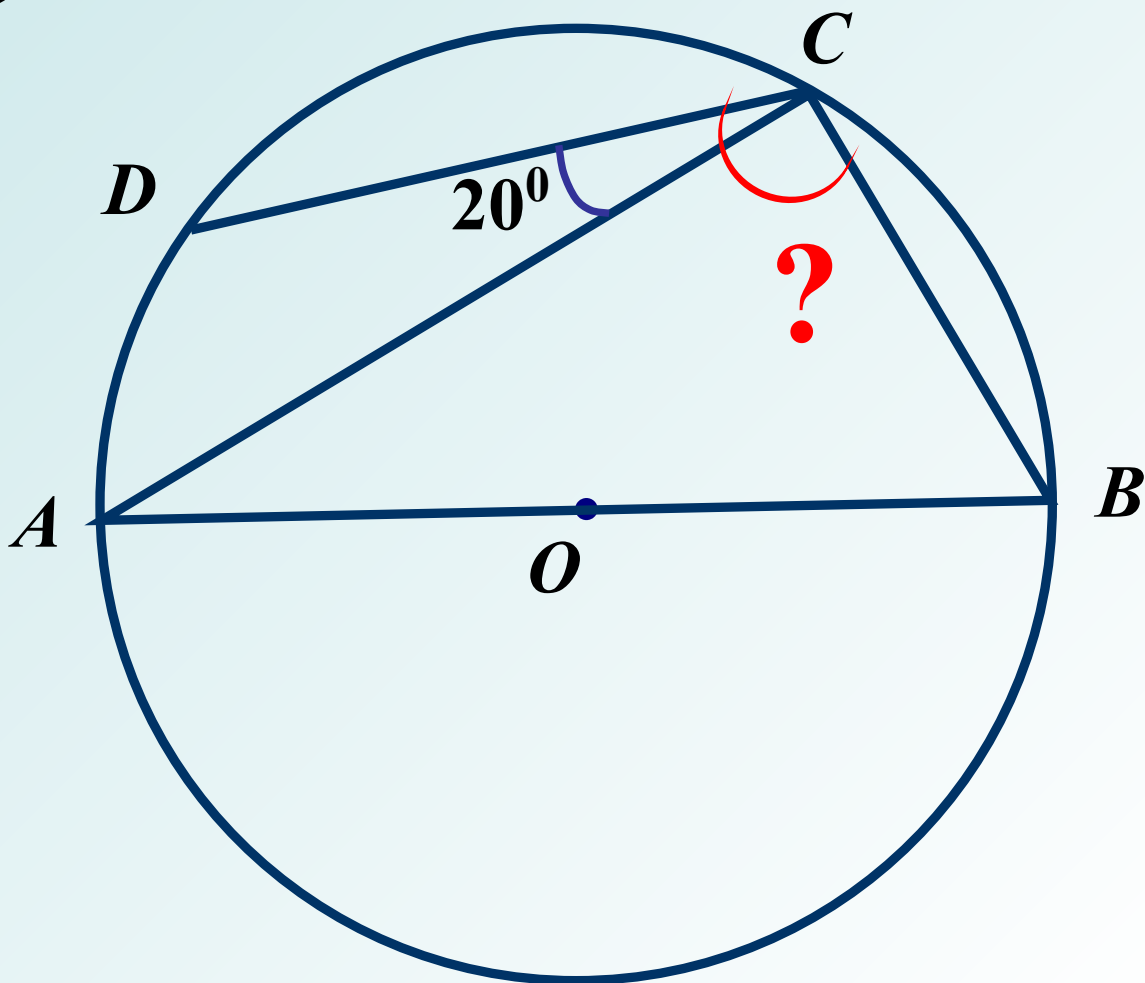
Найти: $\angle A \hat{A} \tilde{N}$



25.

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

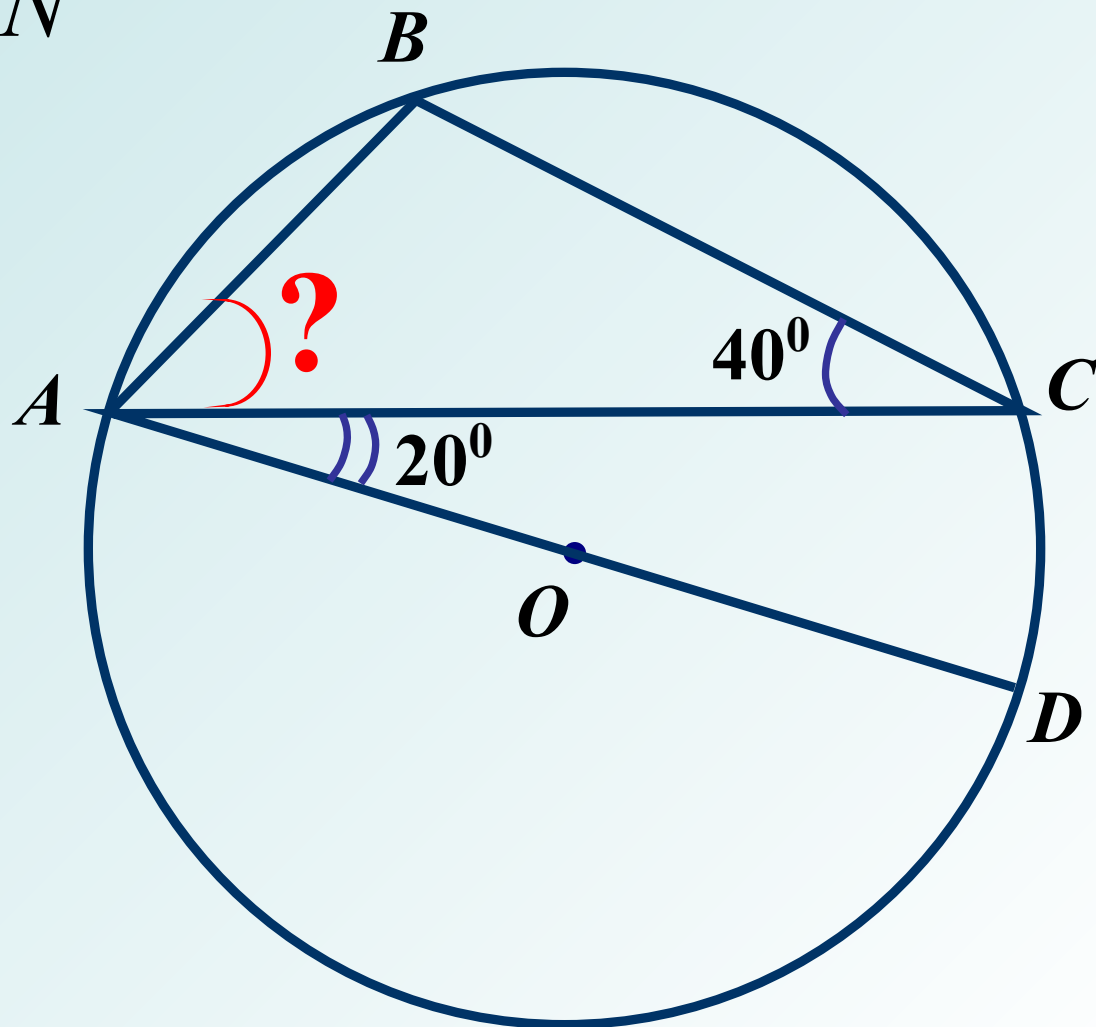
Найти: $\angle \hat{A} \hat{N} \hat{D}$



26.

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

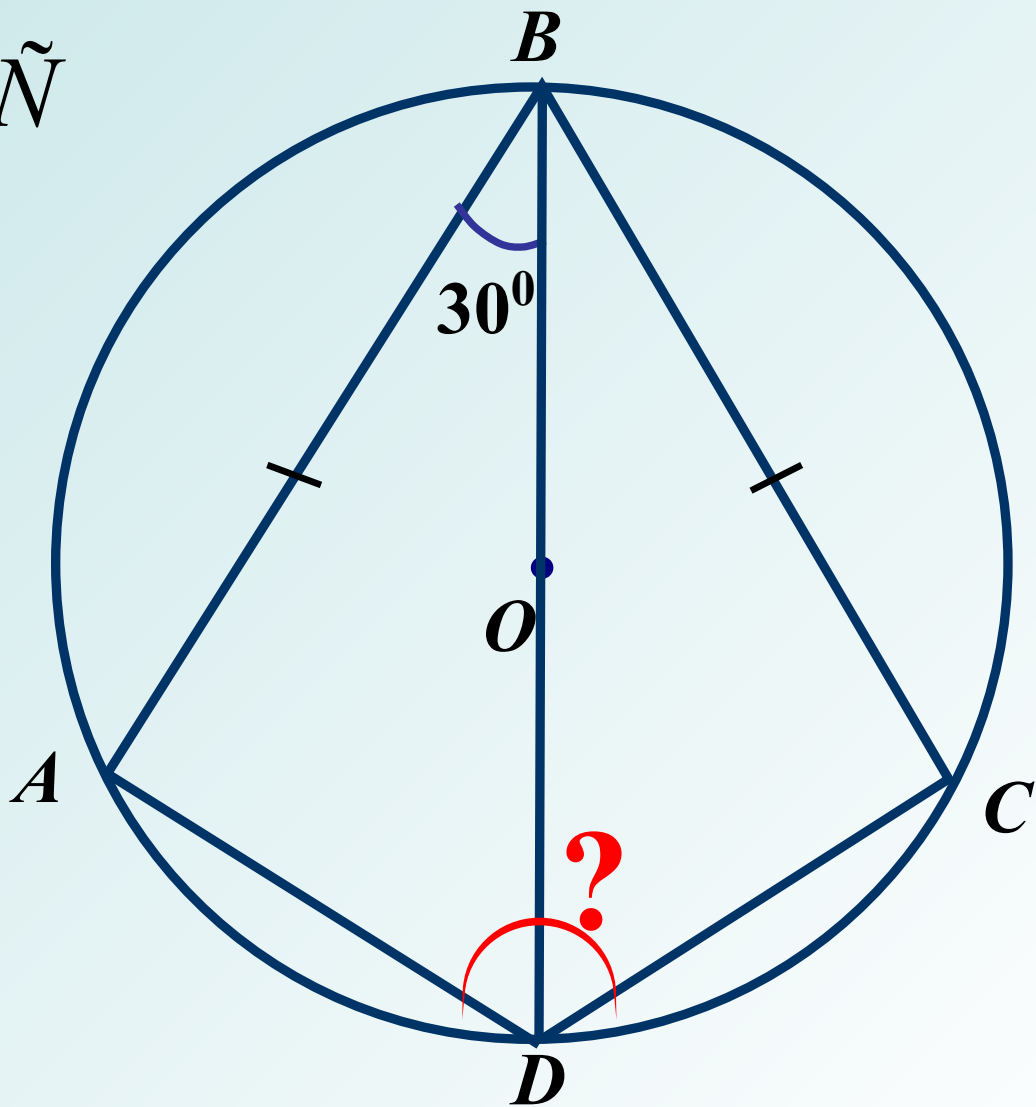
Найти: $\angle \hat{A}\hat{A}\hat{N}$



27.

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

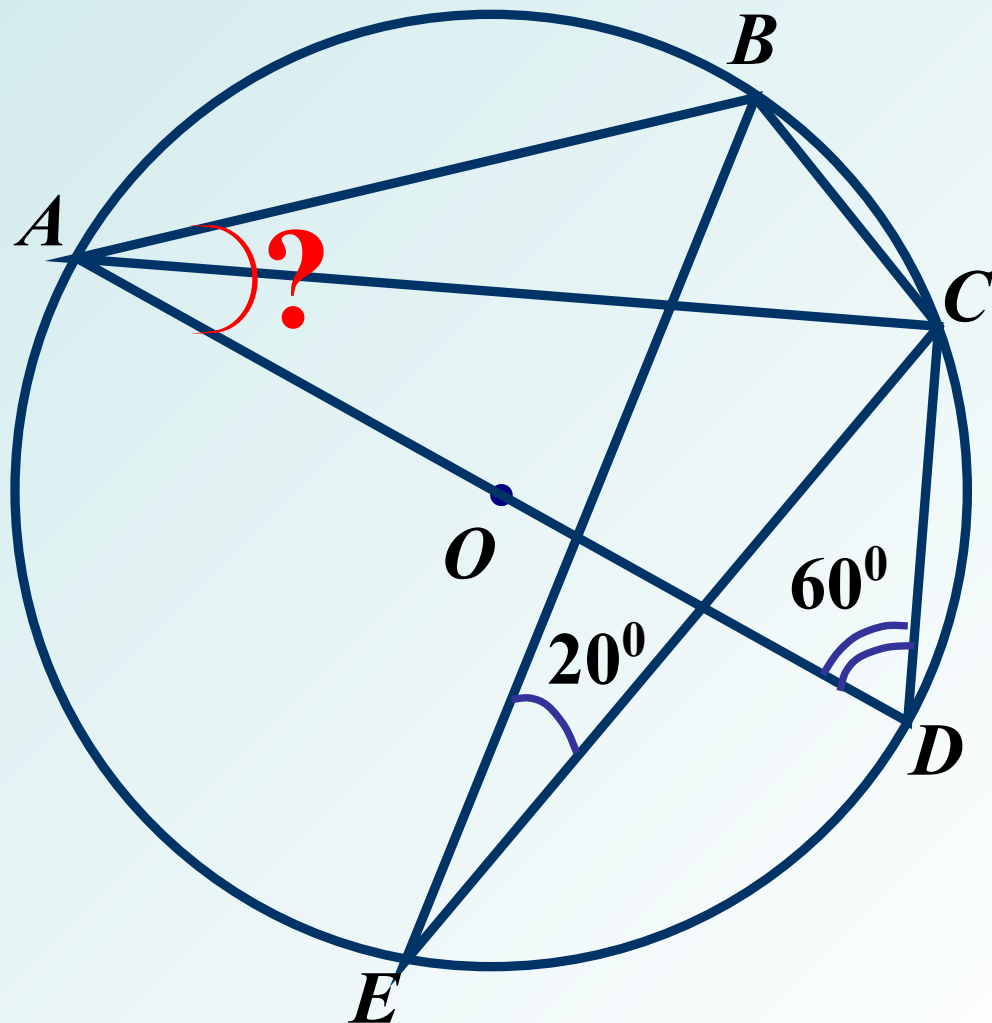
Найти: $\angle AD\tilde{N}$



28.

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

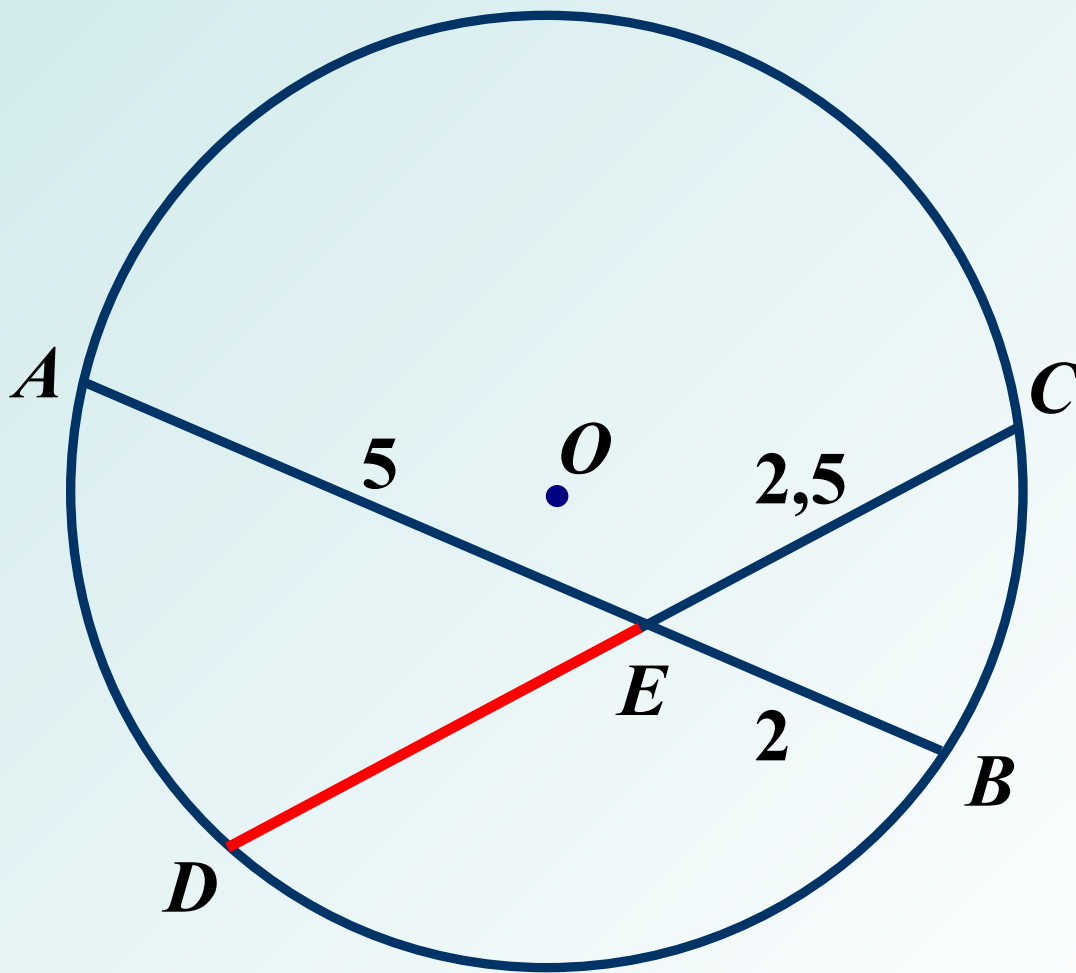
Найти: $\angle BAD$



29.

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

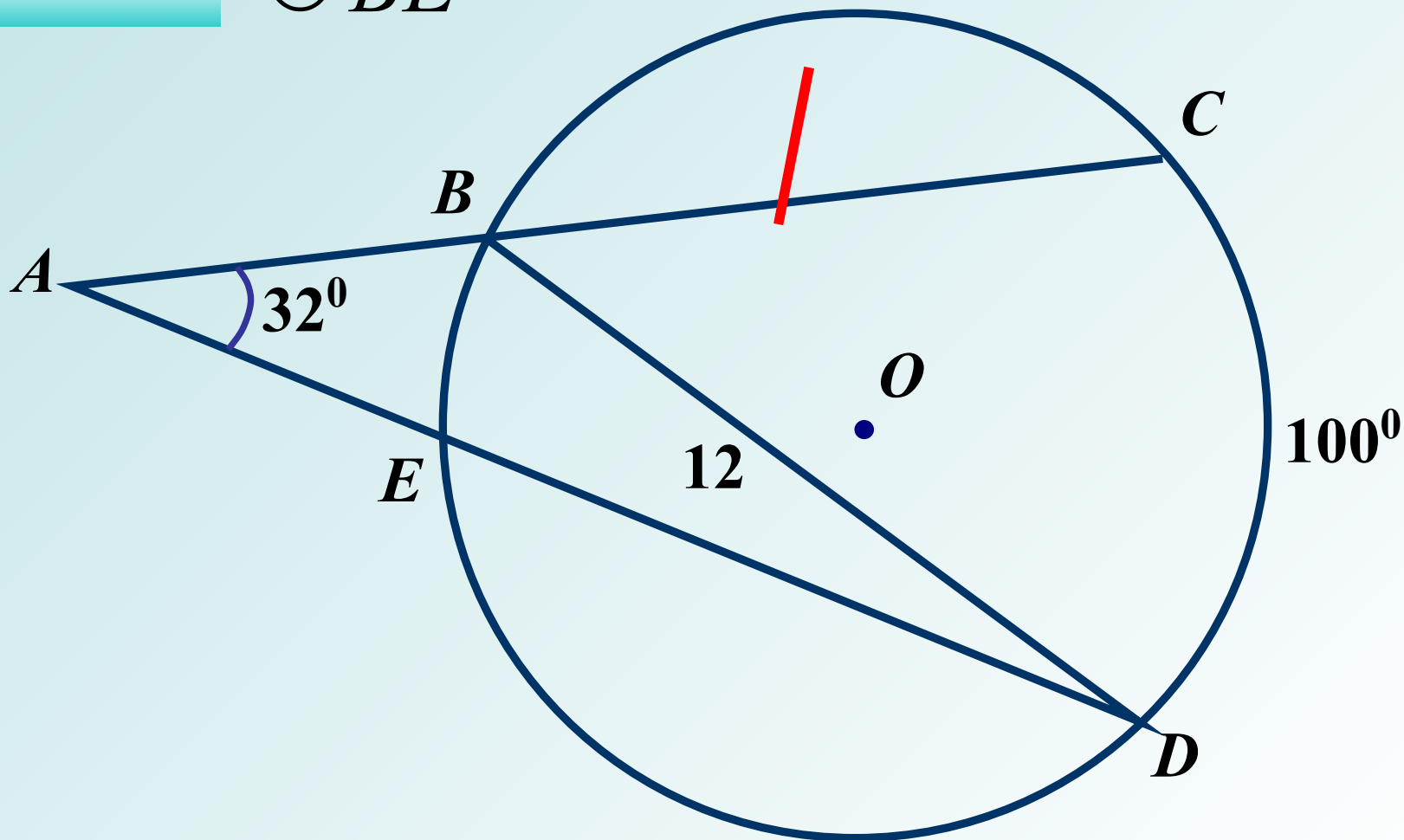
Найти: DE



30.

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

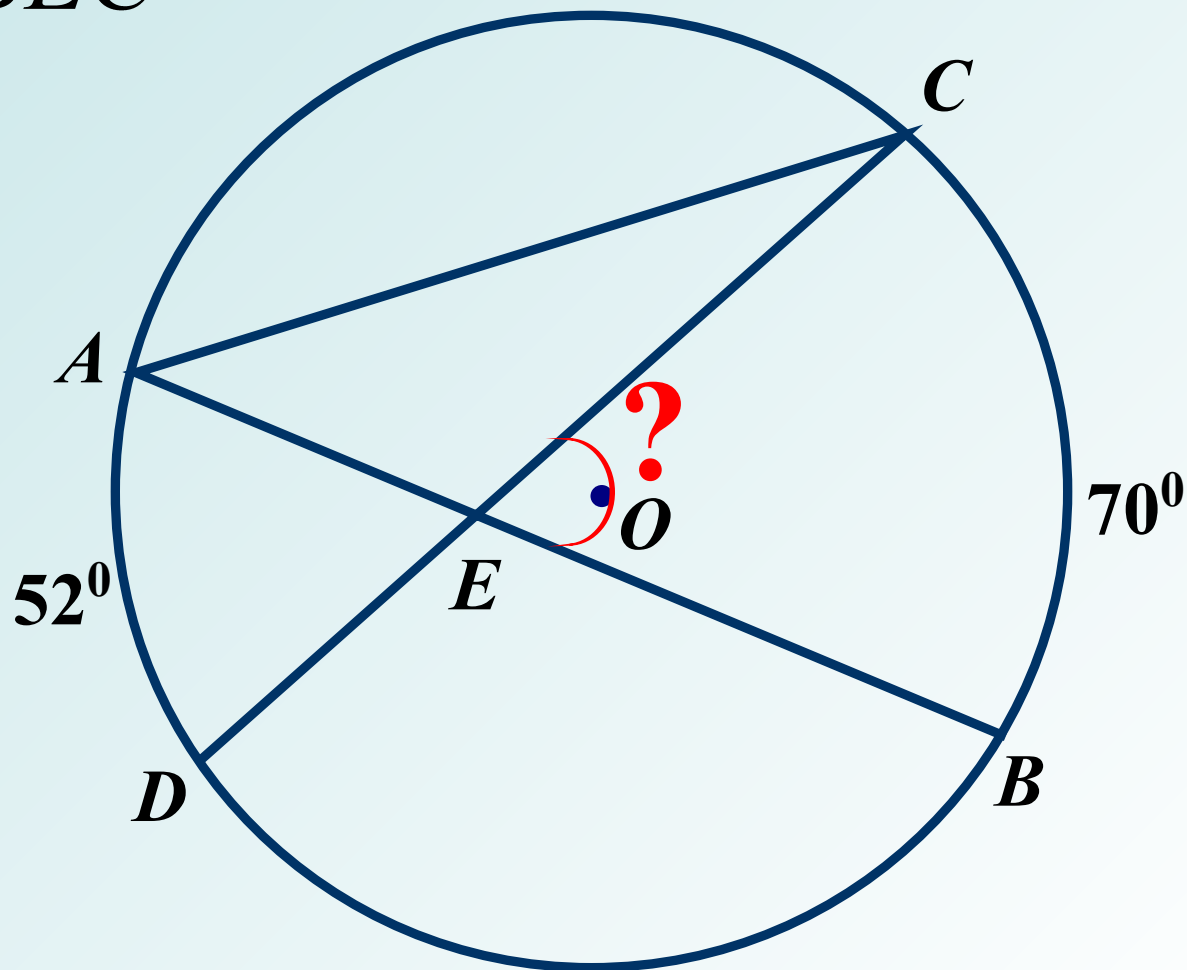
Найти: $\cup BE$



31.

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

Найти: $\angle BEC$



32.

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

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

