

*Решение задач*

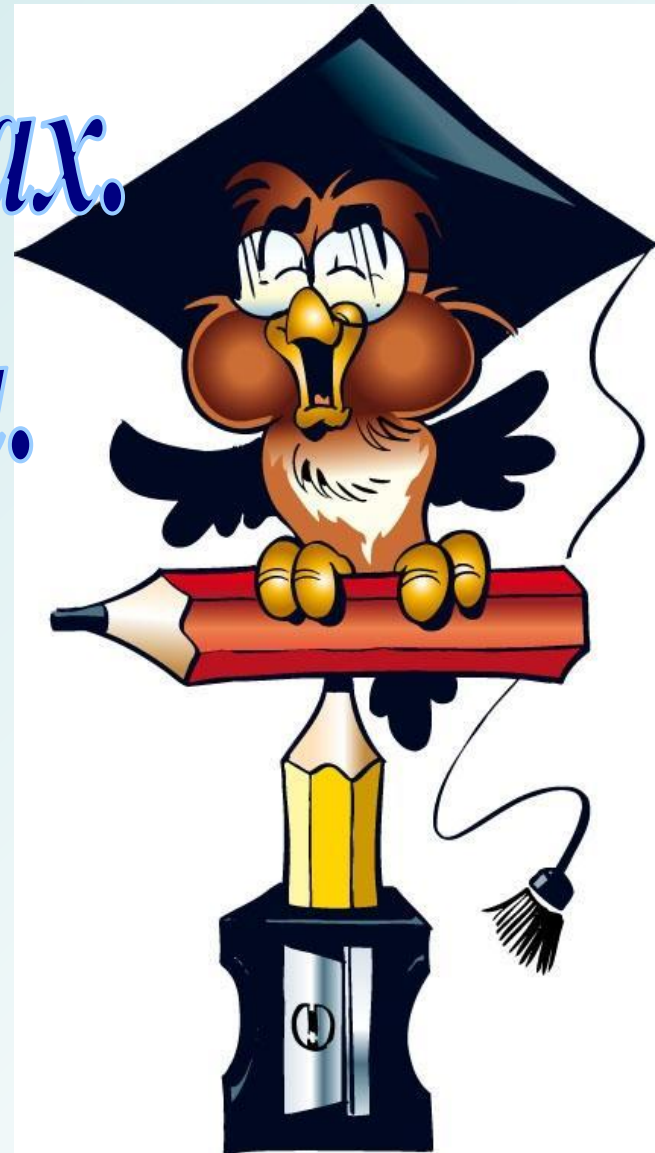
*на готовых чертежах.*

*Четырёхугольники.*

*Геометрия.*

*8 класс.*

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



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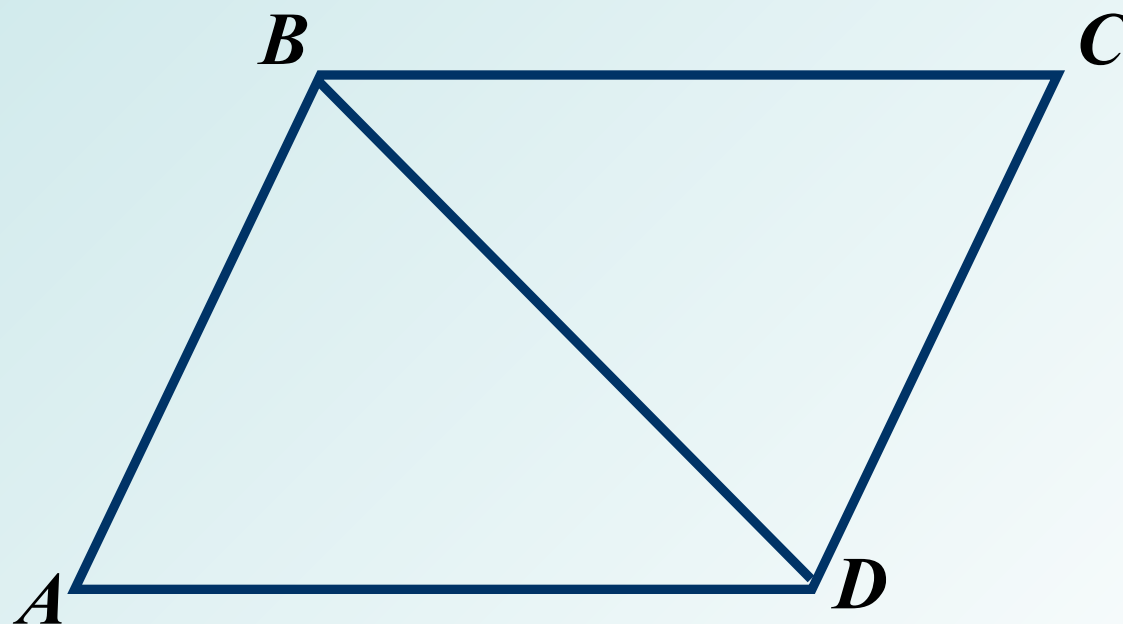
1.

**Дано:**

$AB \parallel CD; BC \parallel AD$

**Доказать:**

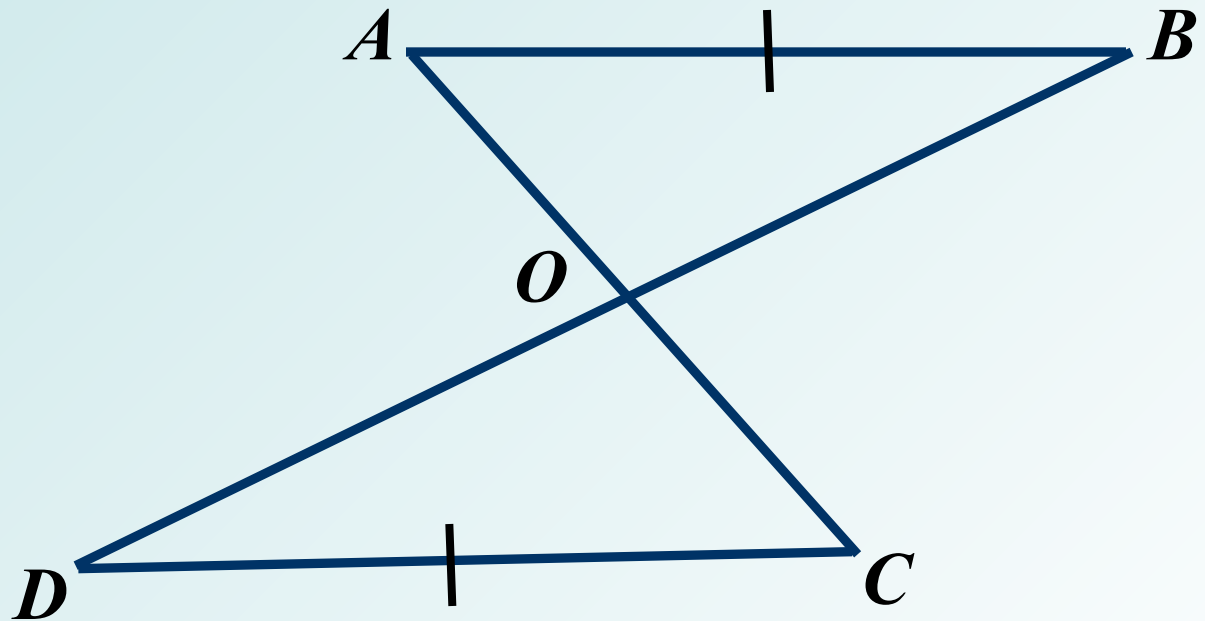
$BC = AD; \angle A = \angle C$



2.

**Дано:**  $AB \parallel CD$ ;  $AB = CD$

**Доказать:**  $O$  – середина  $AC$  и  $BD$



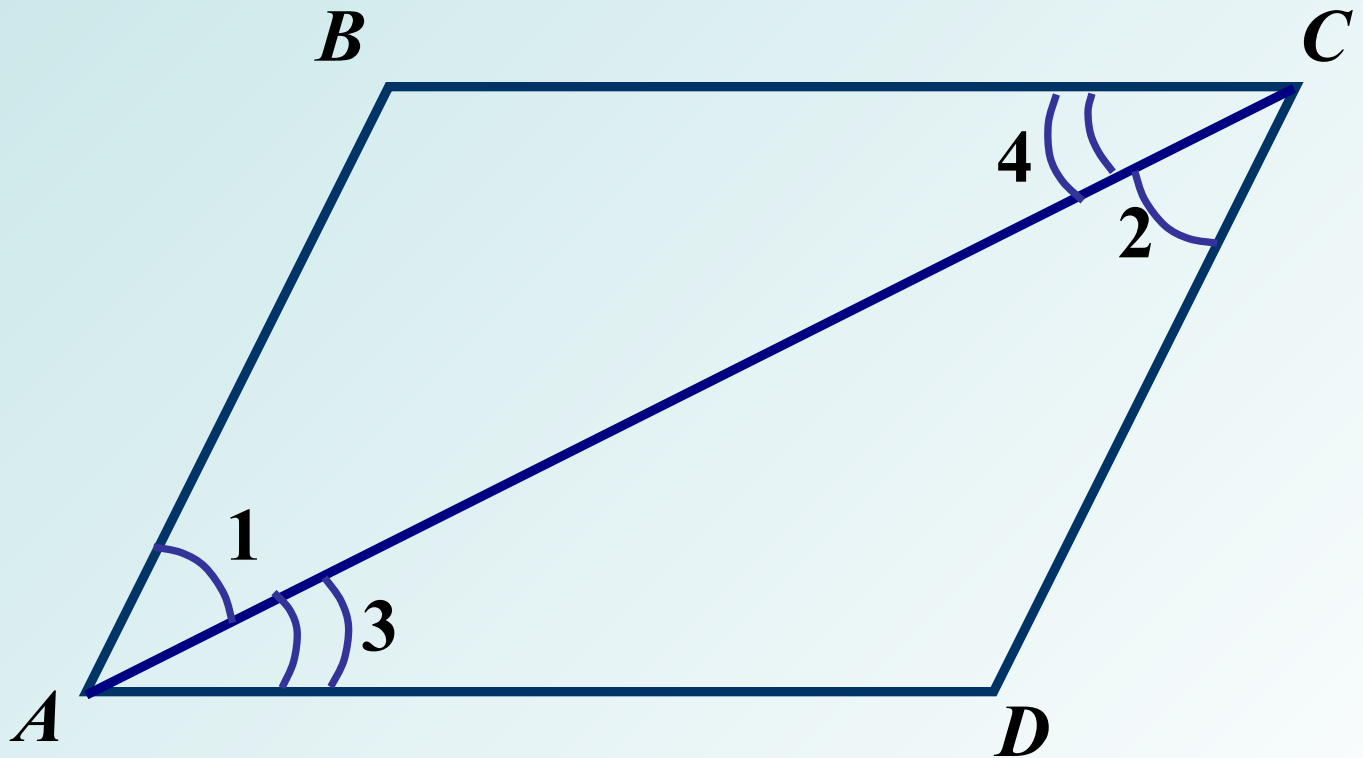
3.

**Дано:**

$$\angle 1 = \angle 2, \quad \angle 3 = \angle 4$$

**Доказать:**

$ABCD$  – параллелограмм



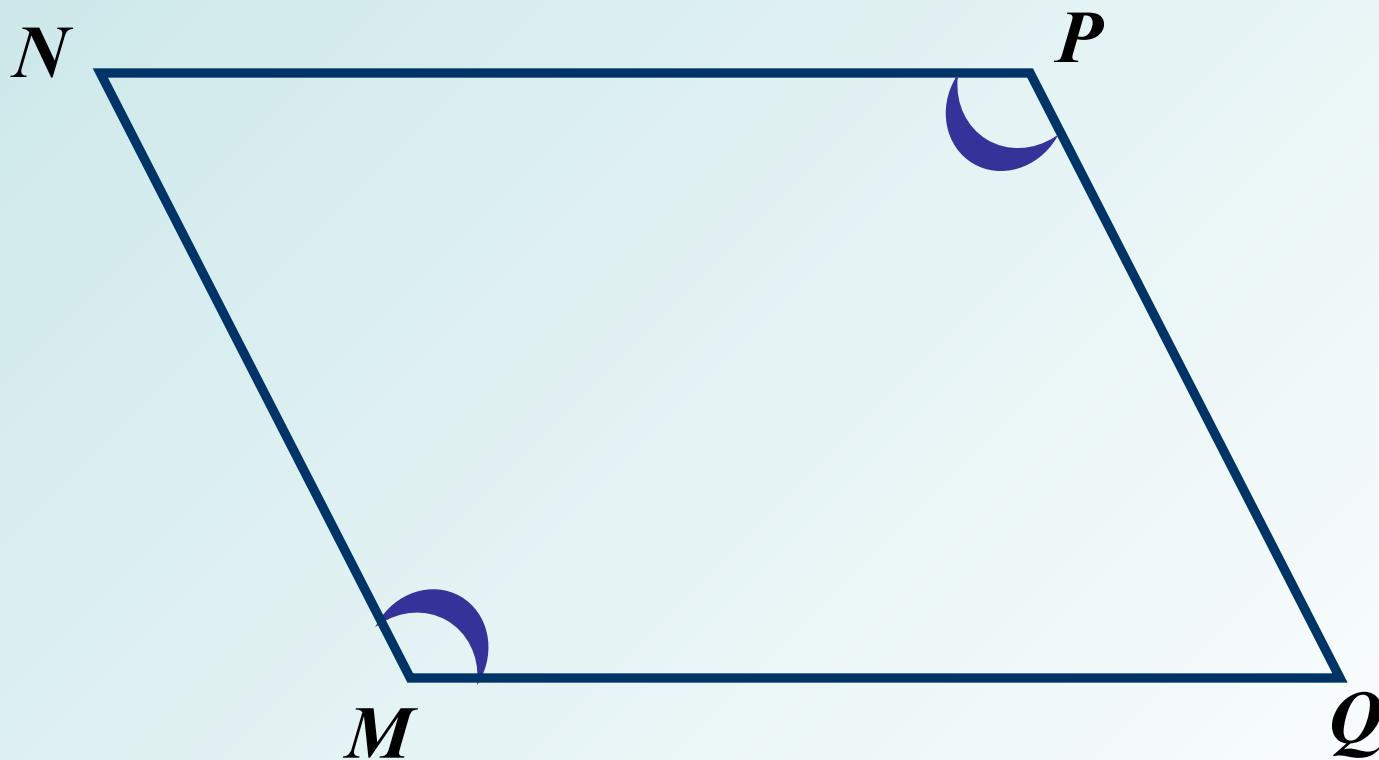
4.

**Дано:**

$MNPQ$ ,  $\angle M = \angle P$

**Доказать:**

$MNPQ$  – *ia da e e a e i a da i i*



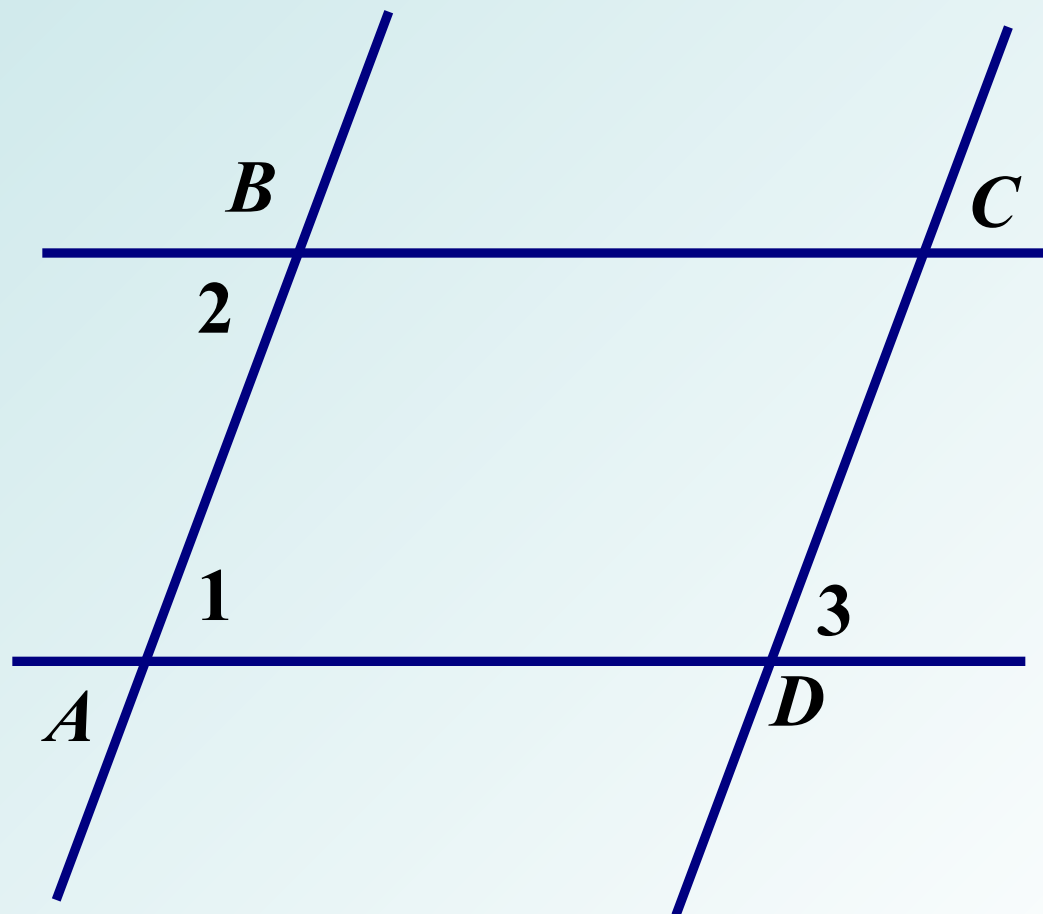
5.

**Дано:**

$$\angle 1 = \angle 2 = \angle 3$$

**Доказать:**

$ABCD$  – параллелограмм



6.

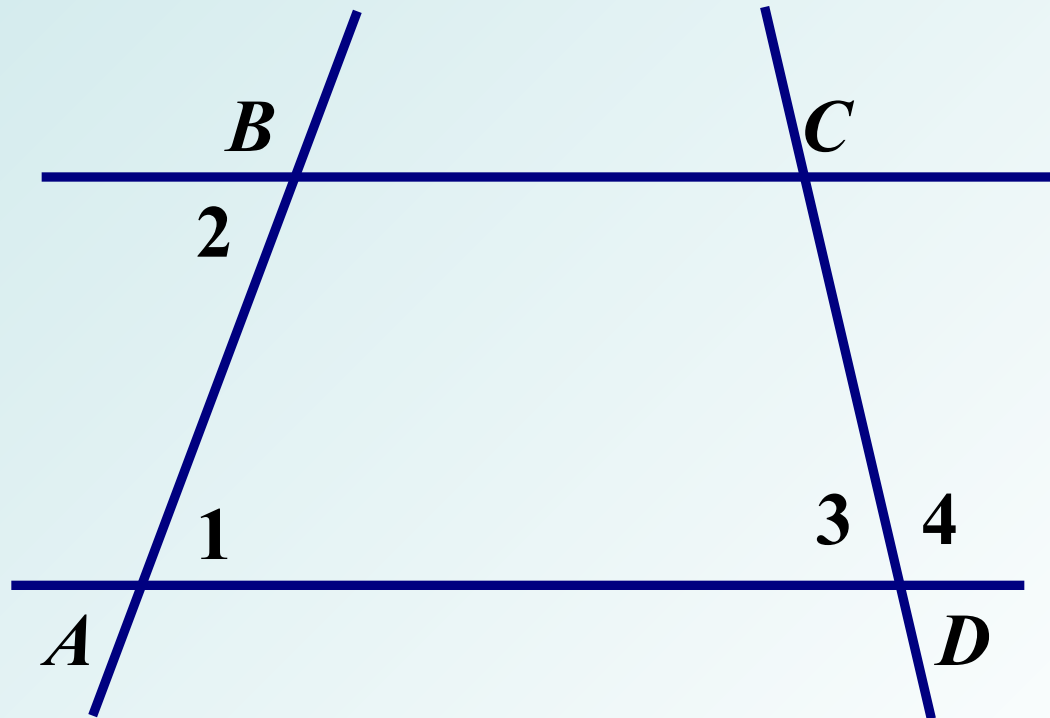
**Дано:**

a)  $\angle 1 = 70^\circ$ ;  $\angle 3 = 110^\circ$ ;  $\angle 2 + \angle 3 = 180^\circ$

á)  $\angle 1 = \angle 2$ ;  $\angle 2 \neq \angle 4$

**Вопрос:**

βâëÿåòñÿ èè ABCD ìàðàëëååïã ðàìì

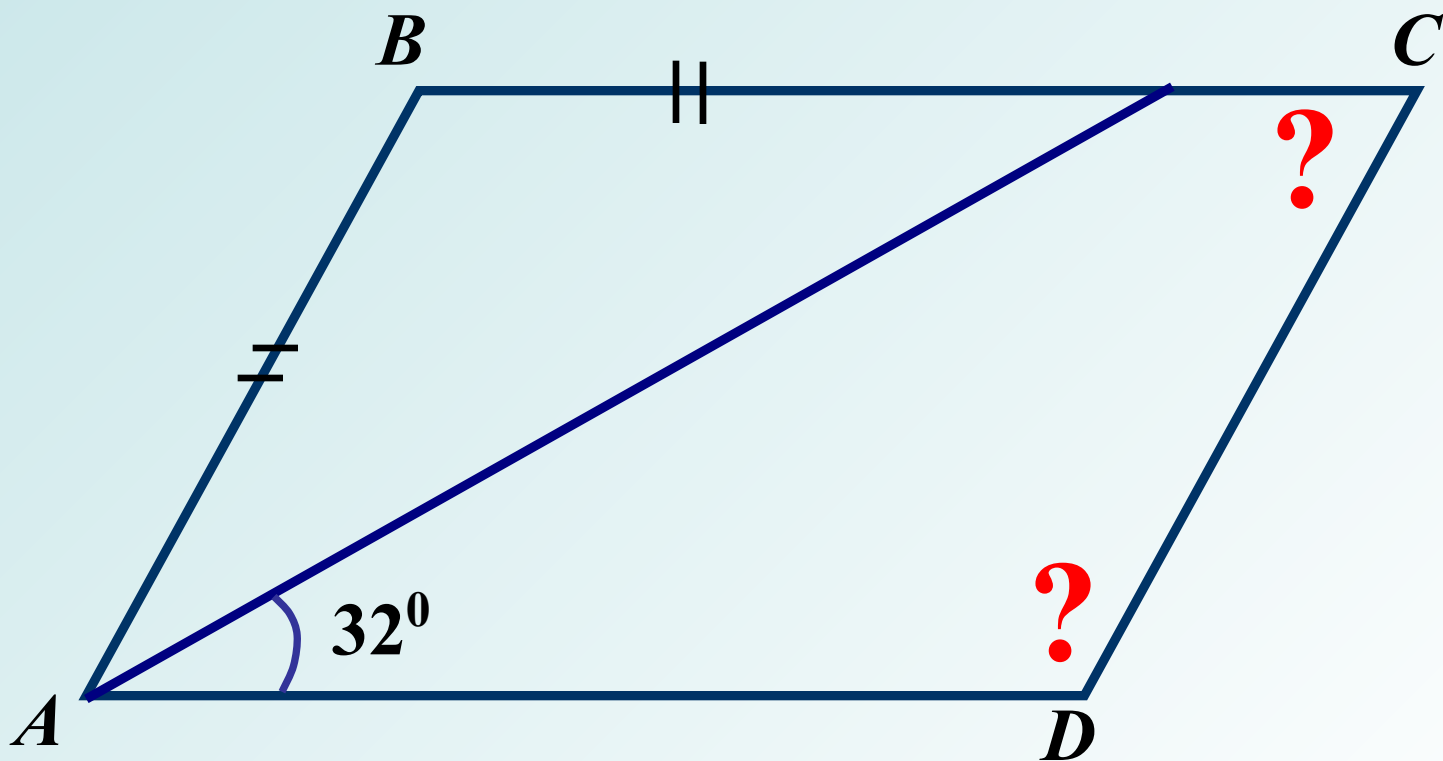




7.

**Дано:**  $ABCD$  –  $\text{ïàðàëëäëïä ðàìì}$

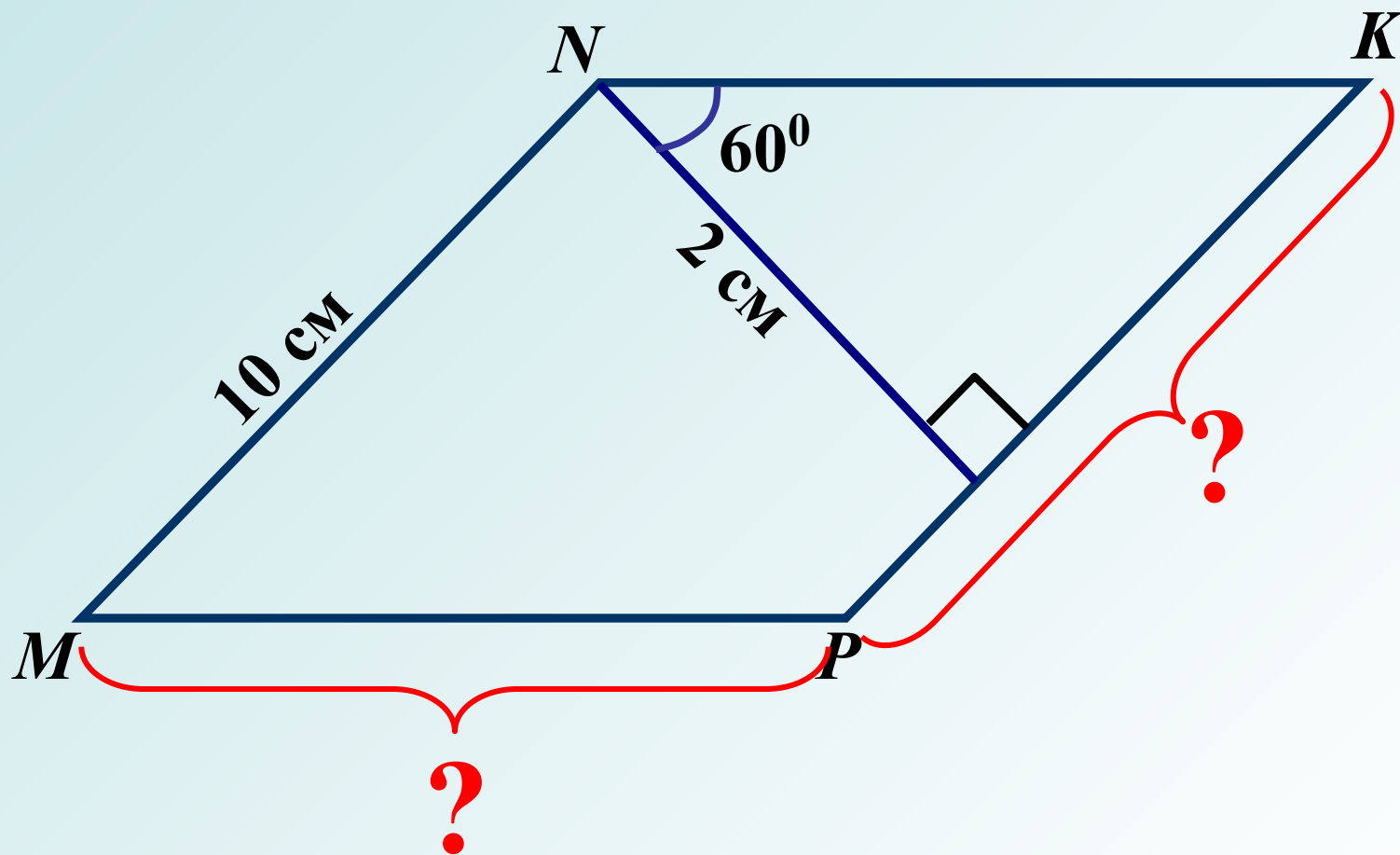
**Найти:**  $\angle C, \angle D$



8.

**Дано:**  $MNKP$  –  $\text{трапеция}$

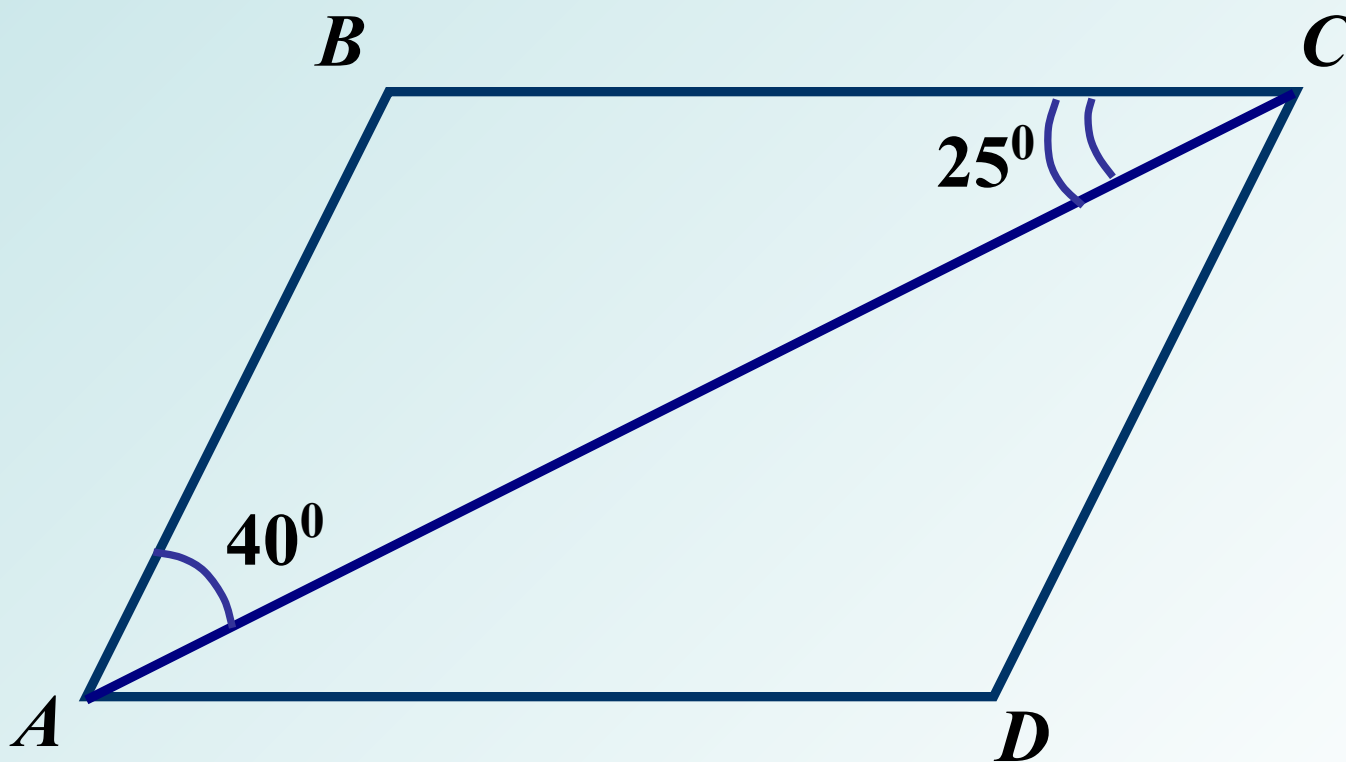
**Найти:**  $MP$ ;  $PK$



9.

*Найти:*

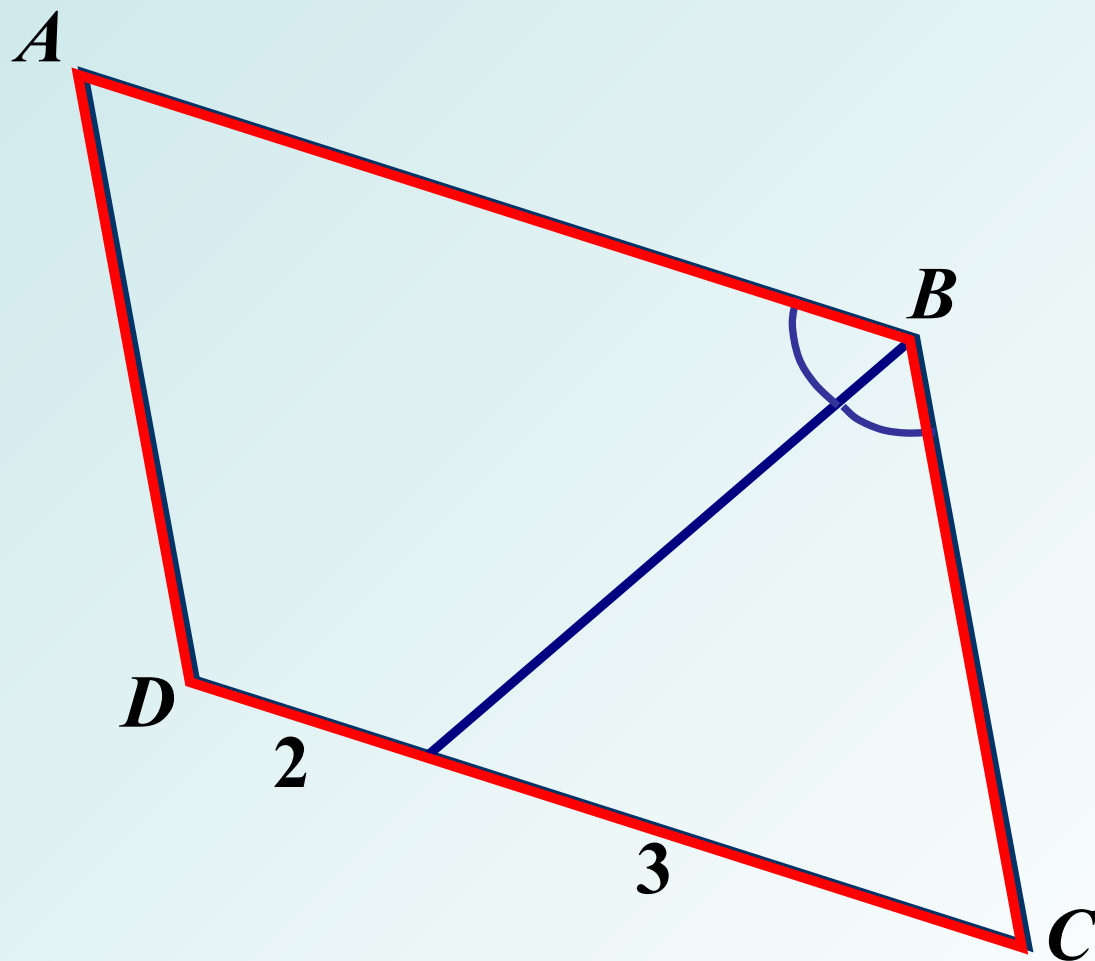
*о̃äëû ìàðàëëäëîã ðàìà ABCD*



10.

Дано:  $ABCD$  –  $\text{іàđàëëâëіã đàìì}$

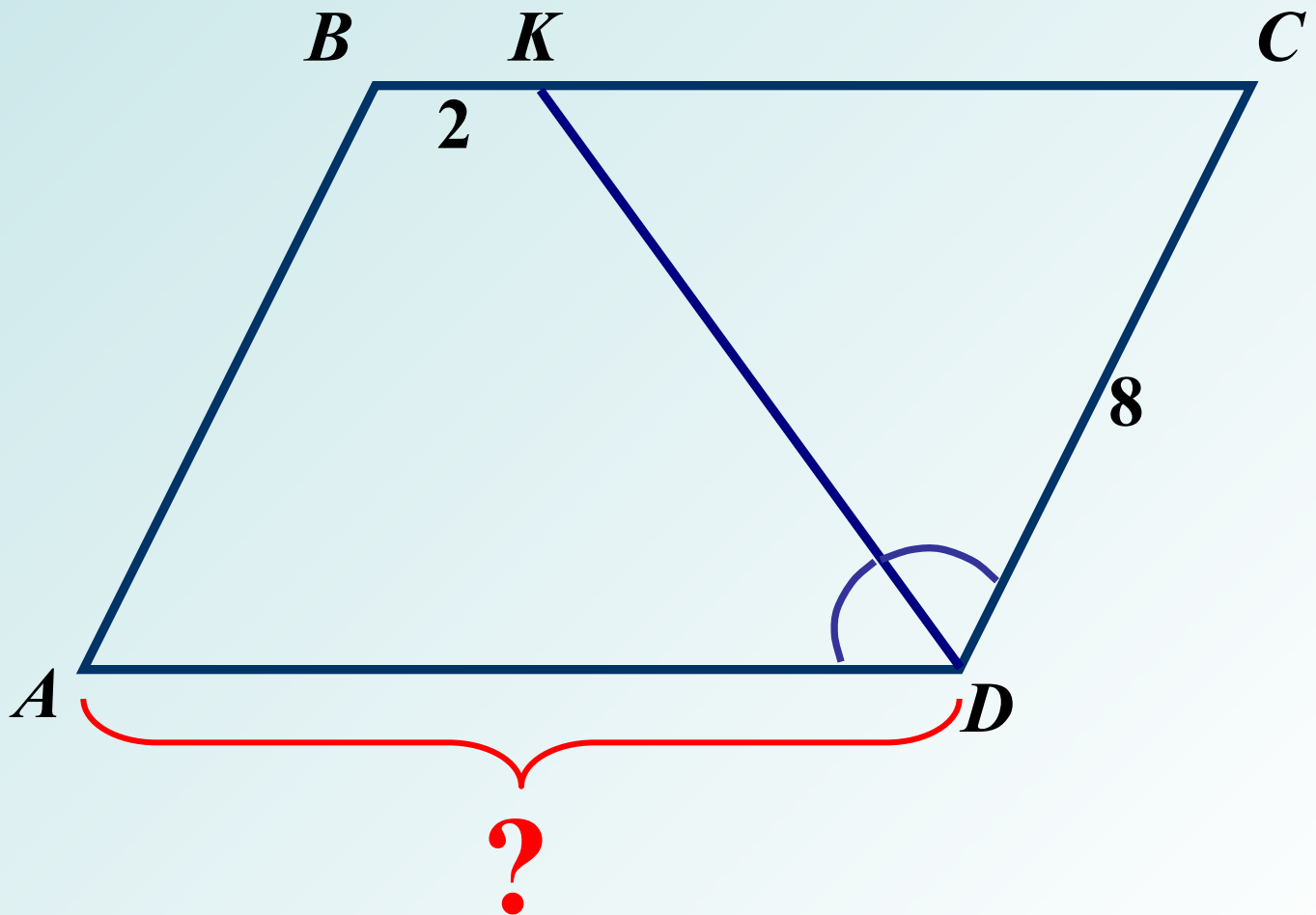
Найти:  $P_{ABCD}$



11.

Дано:  $ABCD$  – трапеция

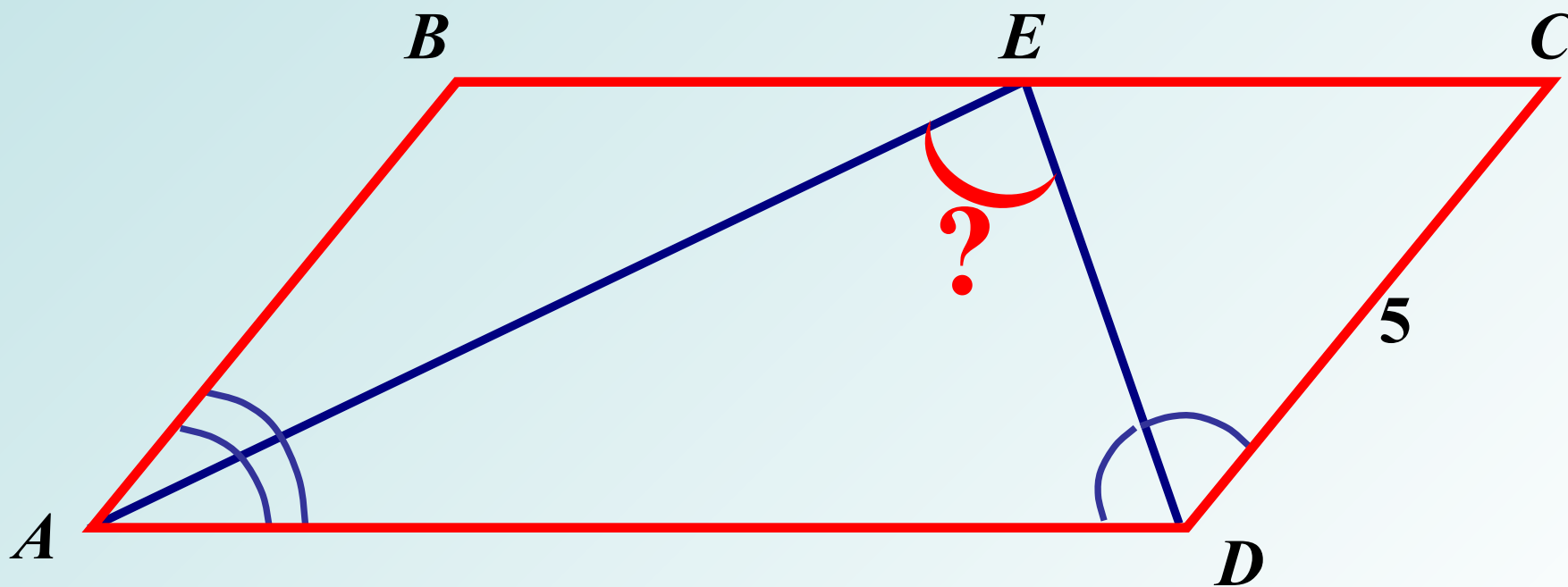
Найти:  $AD$



12.

**Дано:**  $ABCD$  –  $i\grave{a}d\grave{a}e\ddot{e}\grave{a}e\grave{i}\tilde{a} \delta\grave{a}i\grave{i}$

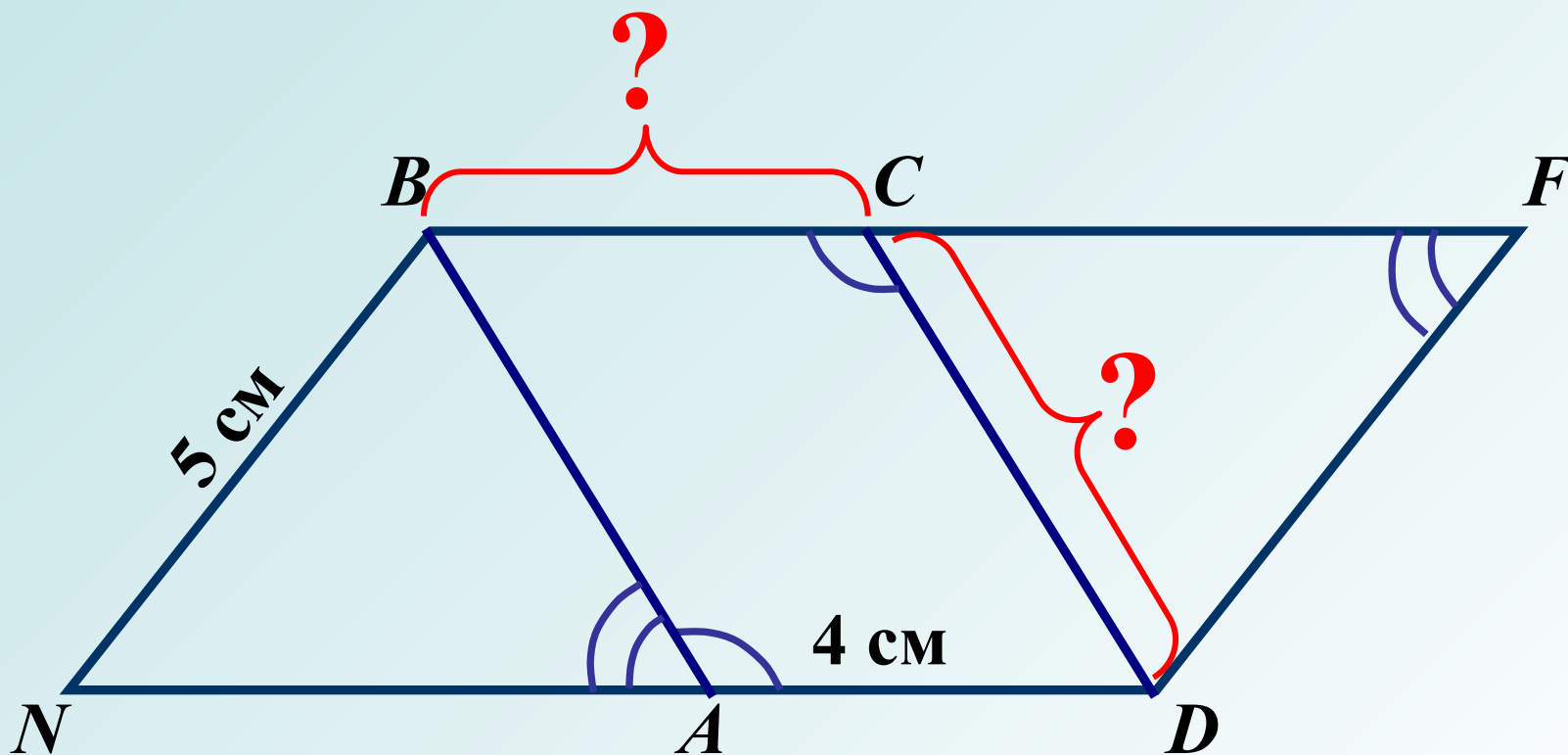
**Найти:**  $P_{ABCD}$ ,  $\angle AED$



13.

**Дано:**  $NBFD$  – трапеция  
 $AD = 4$  см,  $NB = 5$  см

**Найти:**  $AN$ ,  $CD$

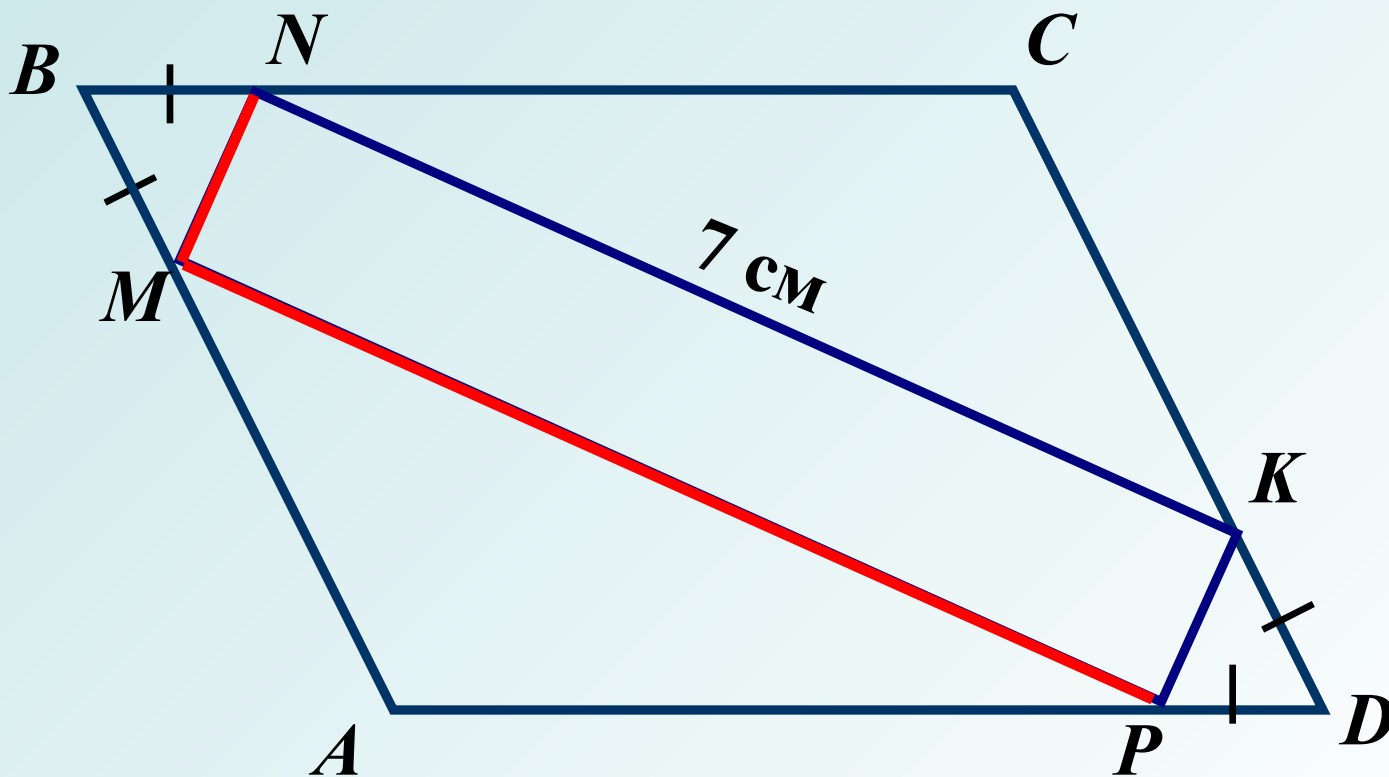


14.

**Дано:**  $ABCD$  – параллелограмм

$$P_{MNKP} = 20 \text{ см}^2$$

**Найти:**  $MN, MP$





15.

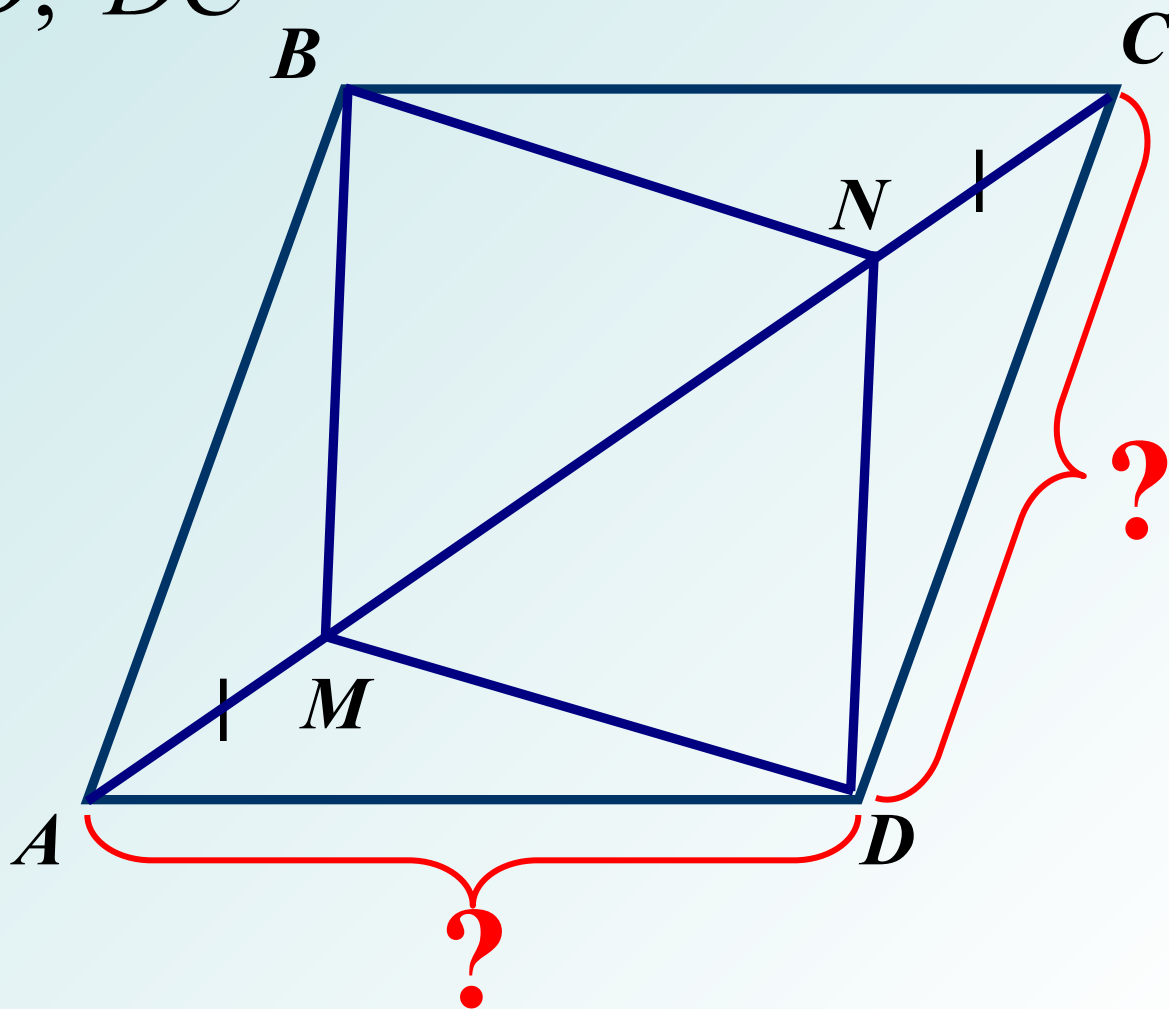
**Дано:**

$BNDM$  – параллелограм

$$AB : BC = 4 : 5, P_{ABCD} = 18 \text{ см}^2$$

**Найти:**

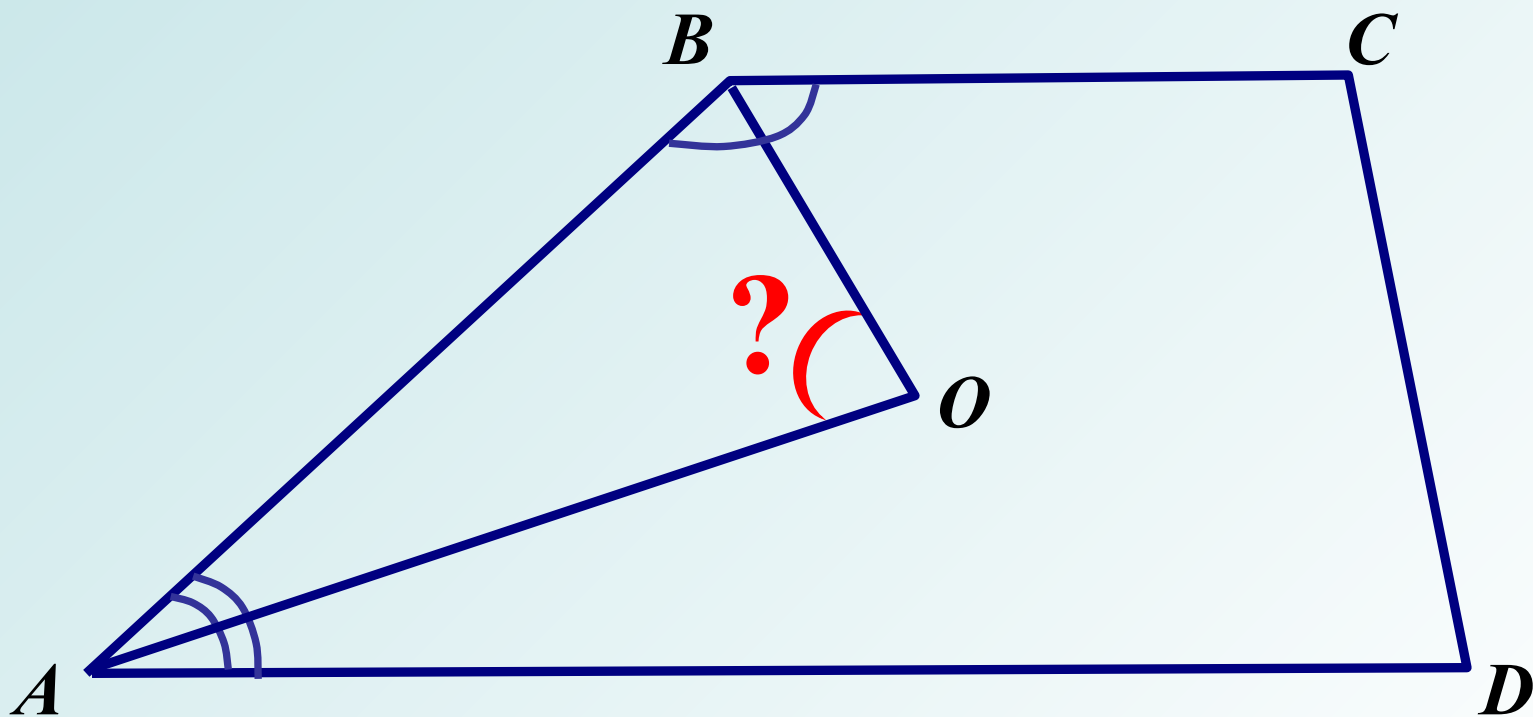
$AD, DC$



16.

Дано:  $ABCD$  – о́дàìàòöèÿ

Найти:  $\angle A_1A_2$

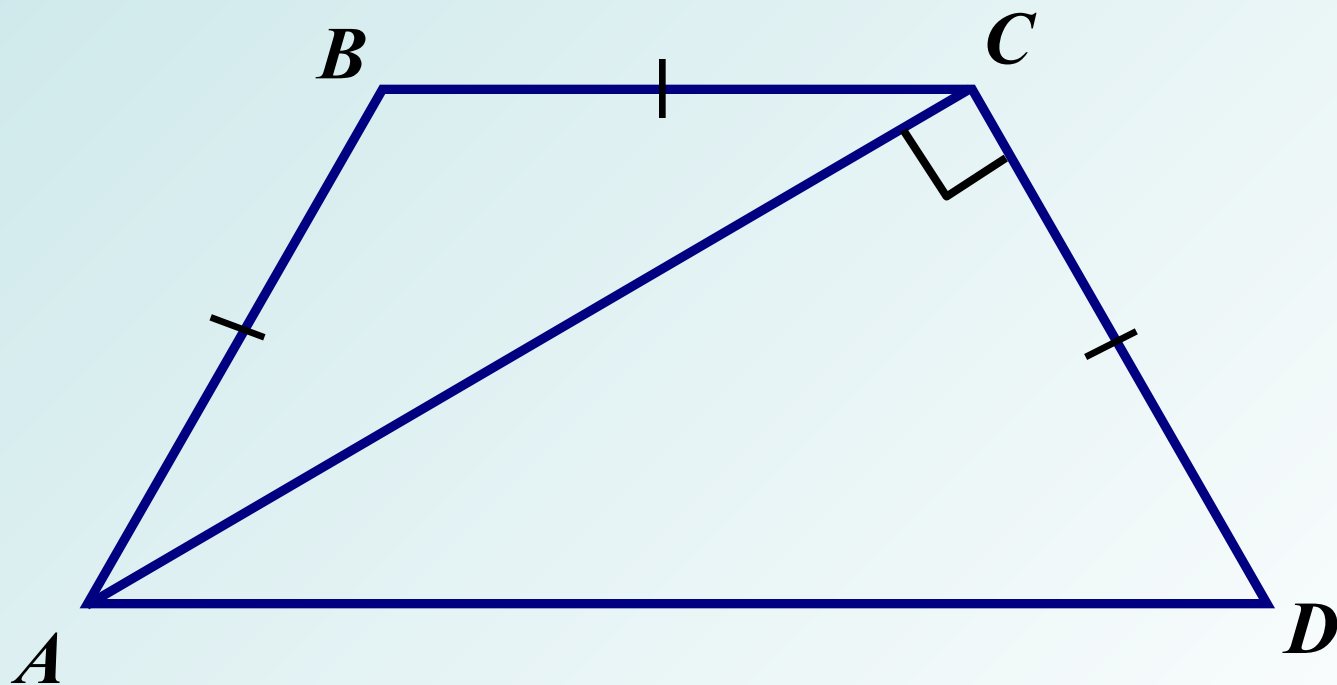


17.

**Дано:**  $ABCD$  –  $\text{òđàìáöèÿ}$

**Найти:**

$\text{óãëÿ òđàìáöèè}$



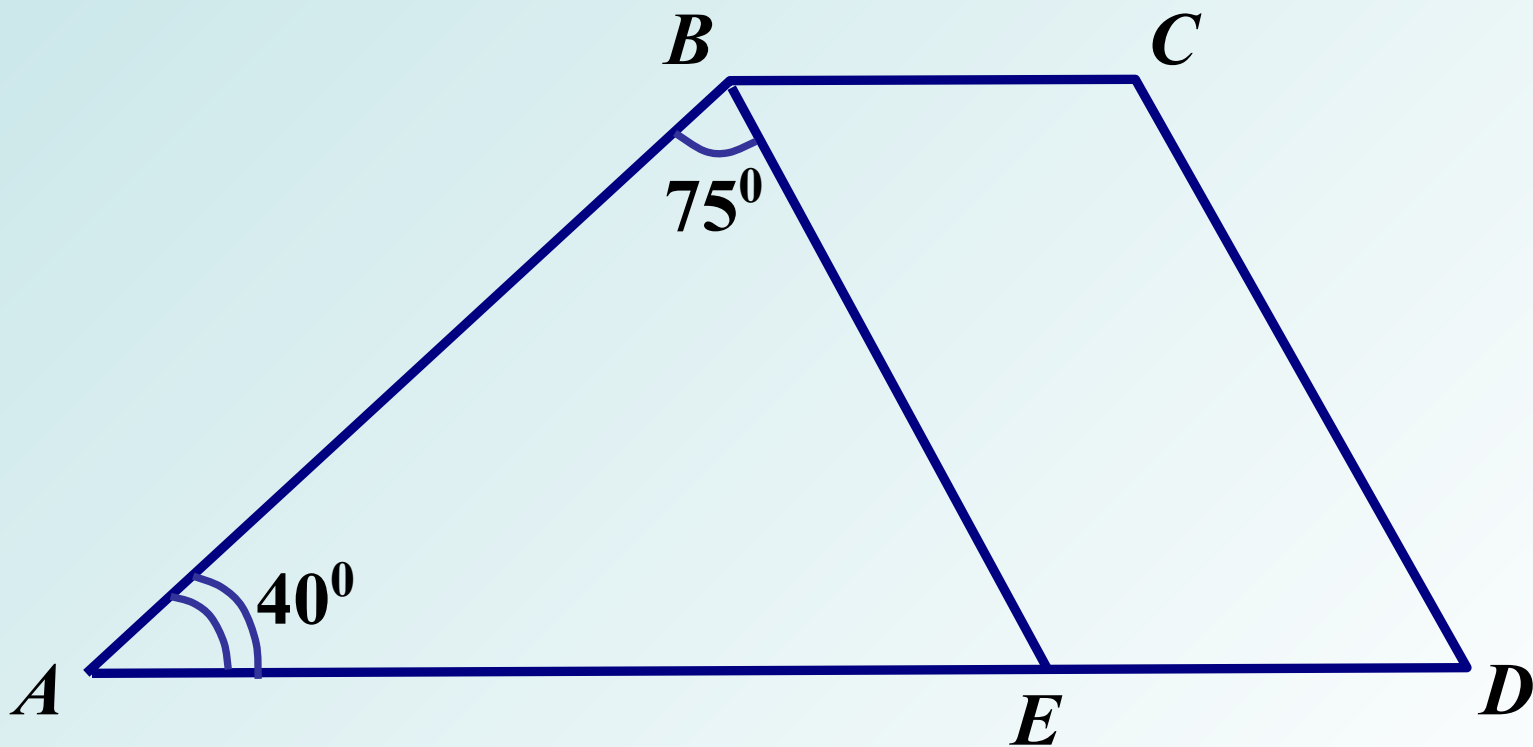
18.

Дано:

$ABCD$  – трапеция  $BA \parallel CD$

Найти:

$\angle B$

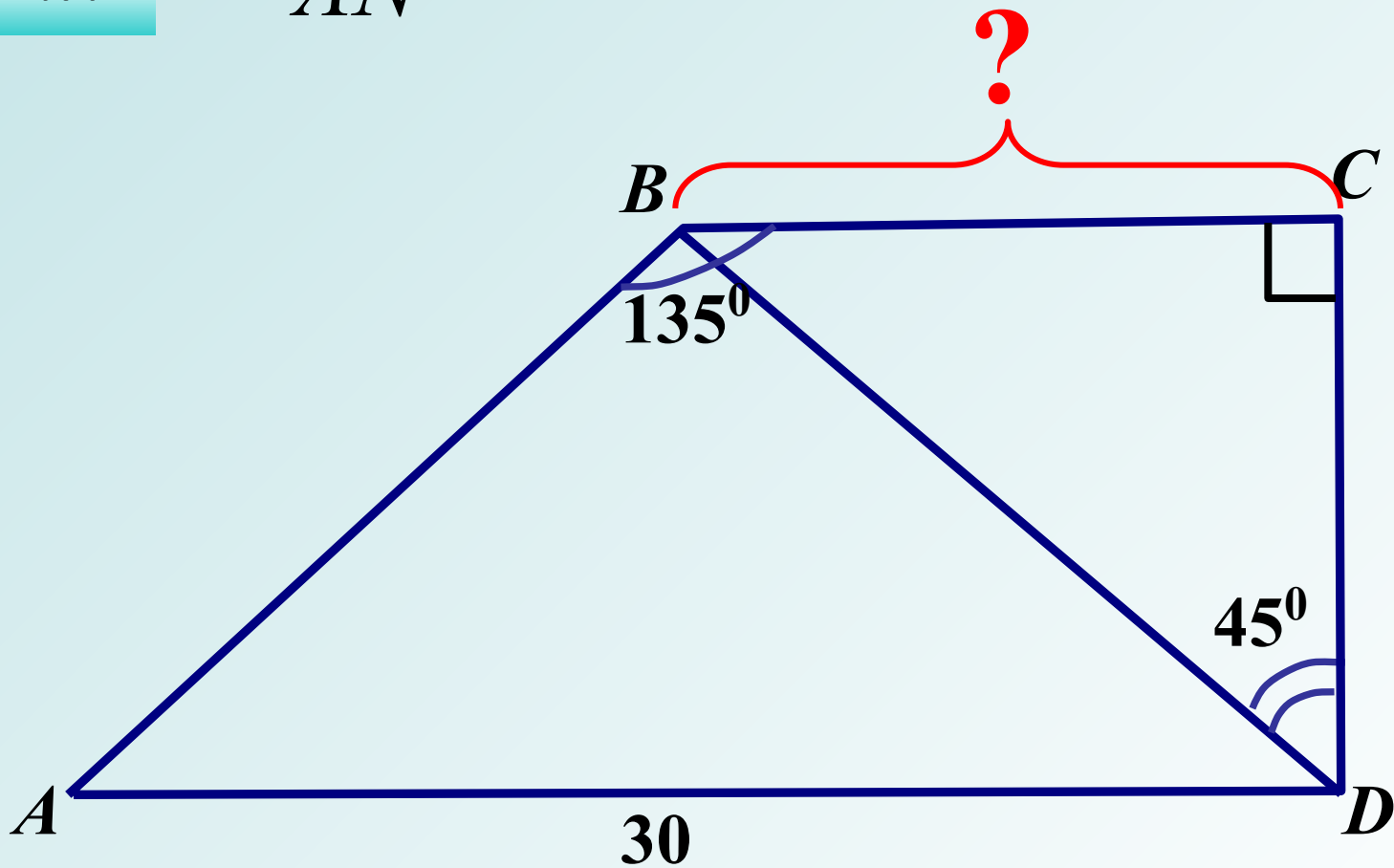


19.

Дано:  $ABCD$  –  $\text{òđàìäöèÿ}$

Найти:

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



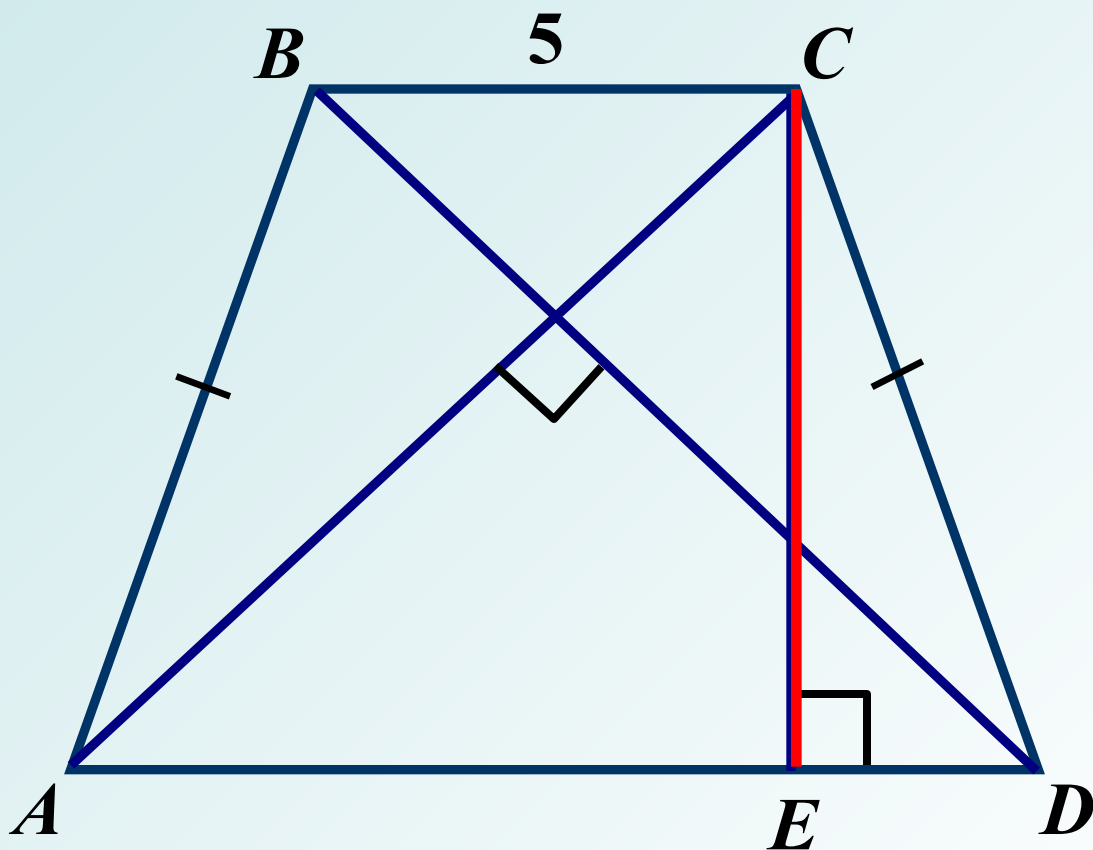
20.

Дано:

$ABCD$  –  $òđàïäöèÿ$   $AD = 15$

Найти:

$NE$



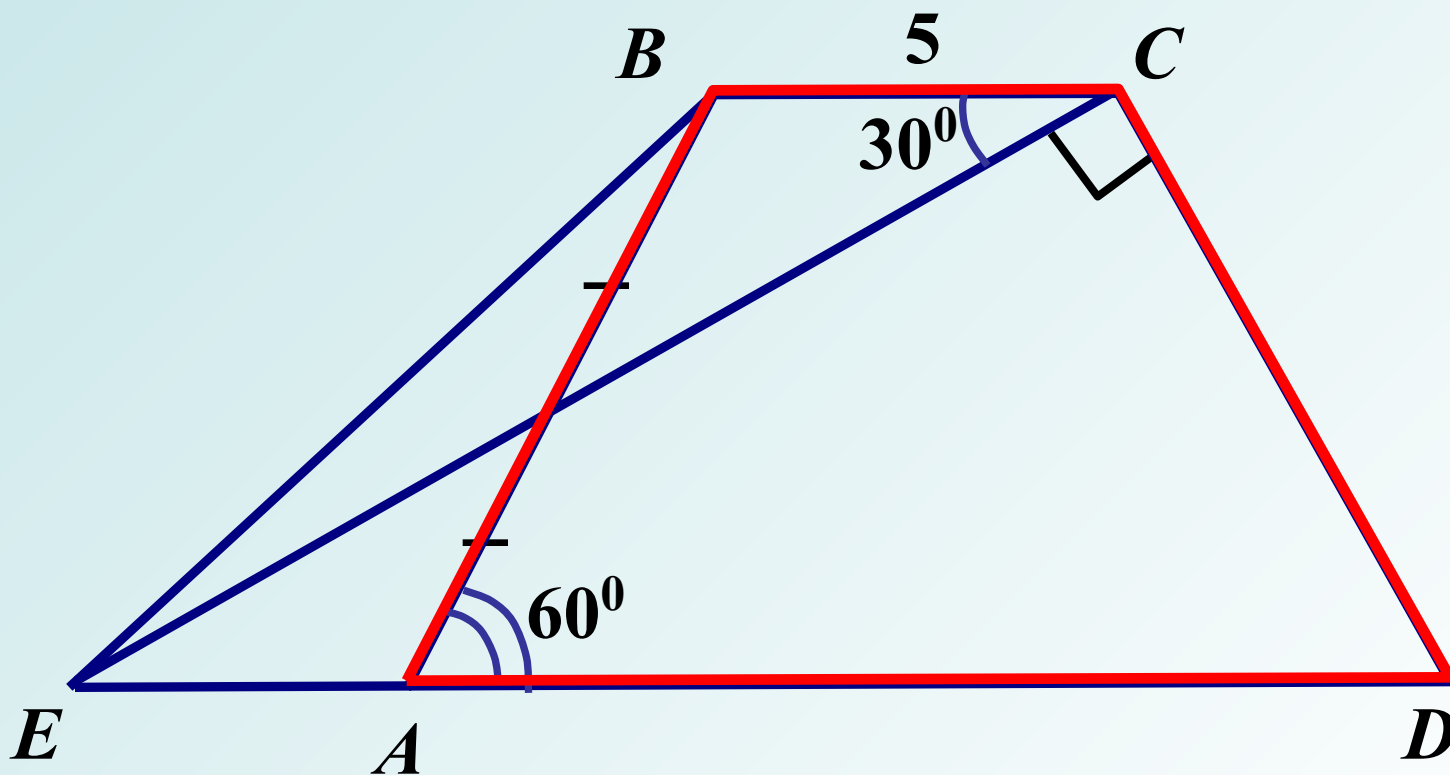
21.

**Дано:**

$ABCD$  – трапеция  $AD = 15$

**Найти:**

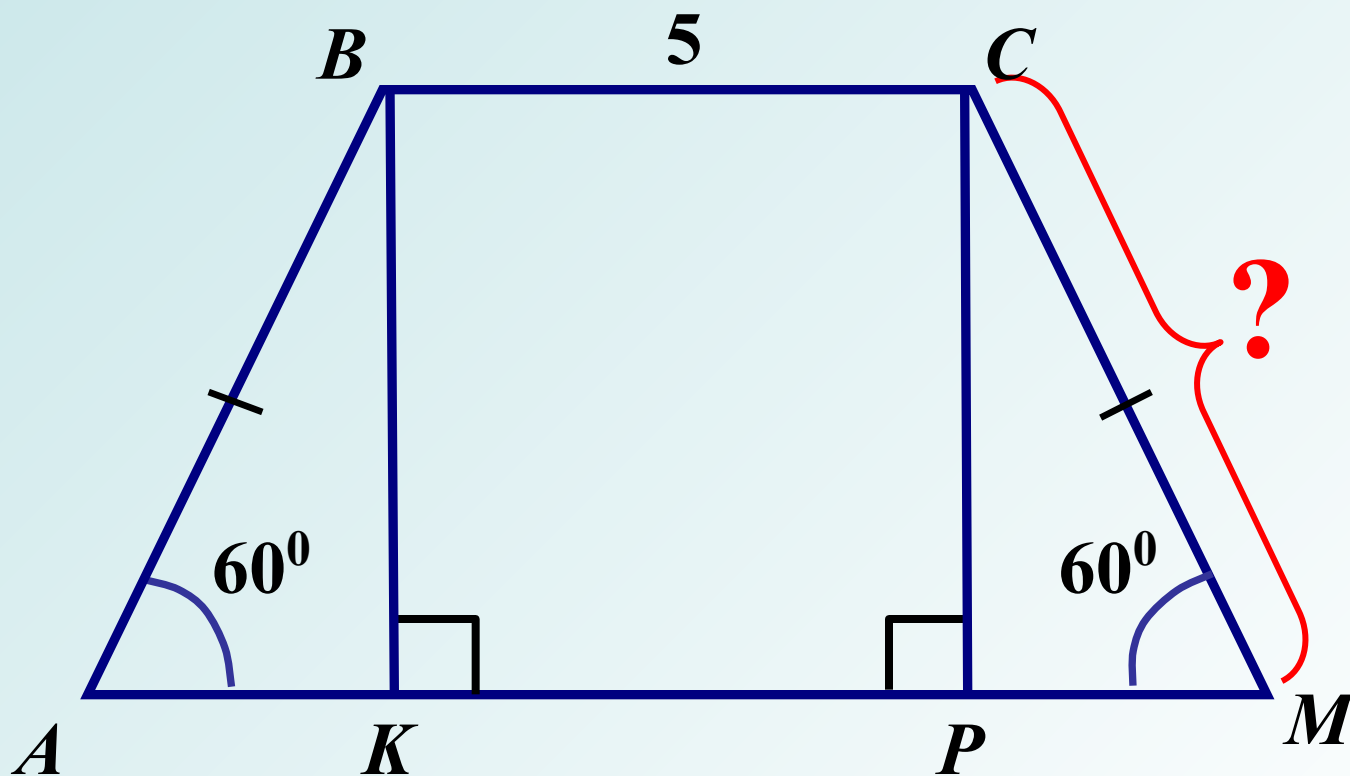
$P_{ABCD}$



22.

Дано:  $ABCM$  – трапеция  $AM = 7$

Найти:  $AM$



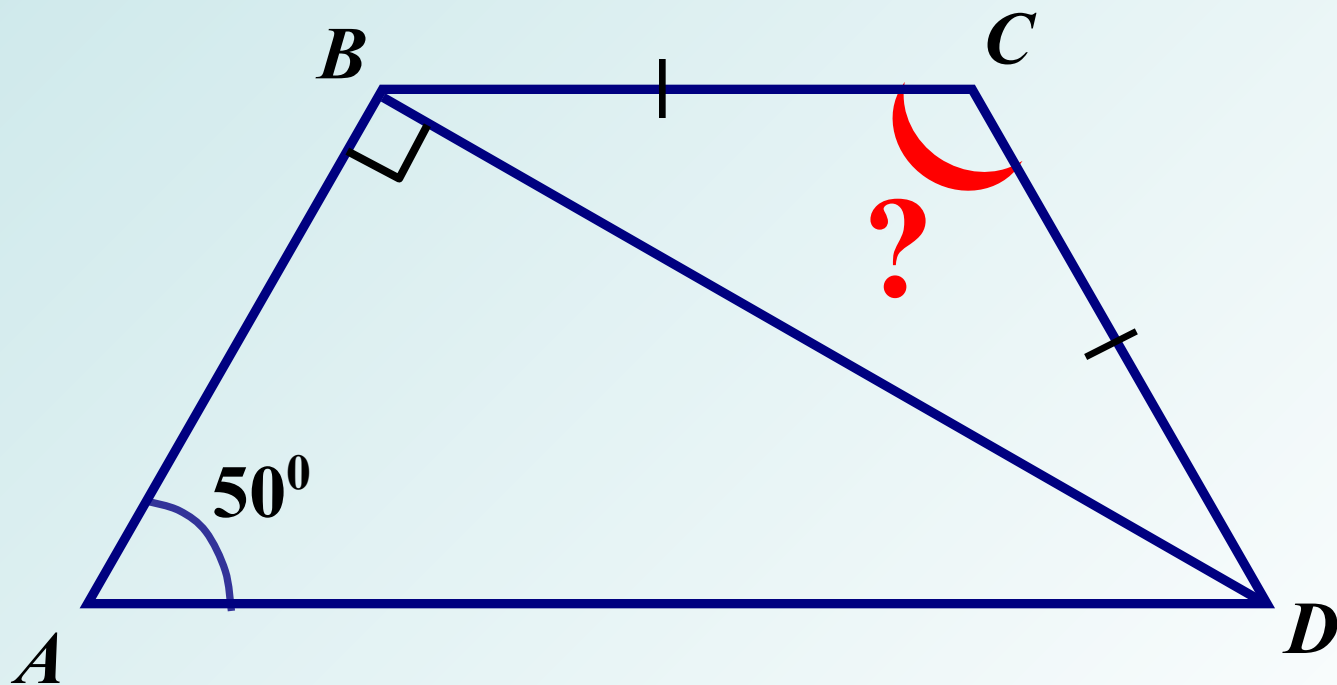


23.

Дано:  $ABCD$  –  $\text{òđàìäöèÿ}$

Найти:

$\angle \tilde{N}$



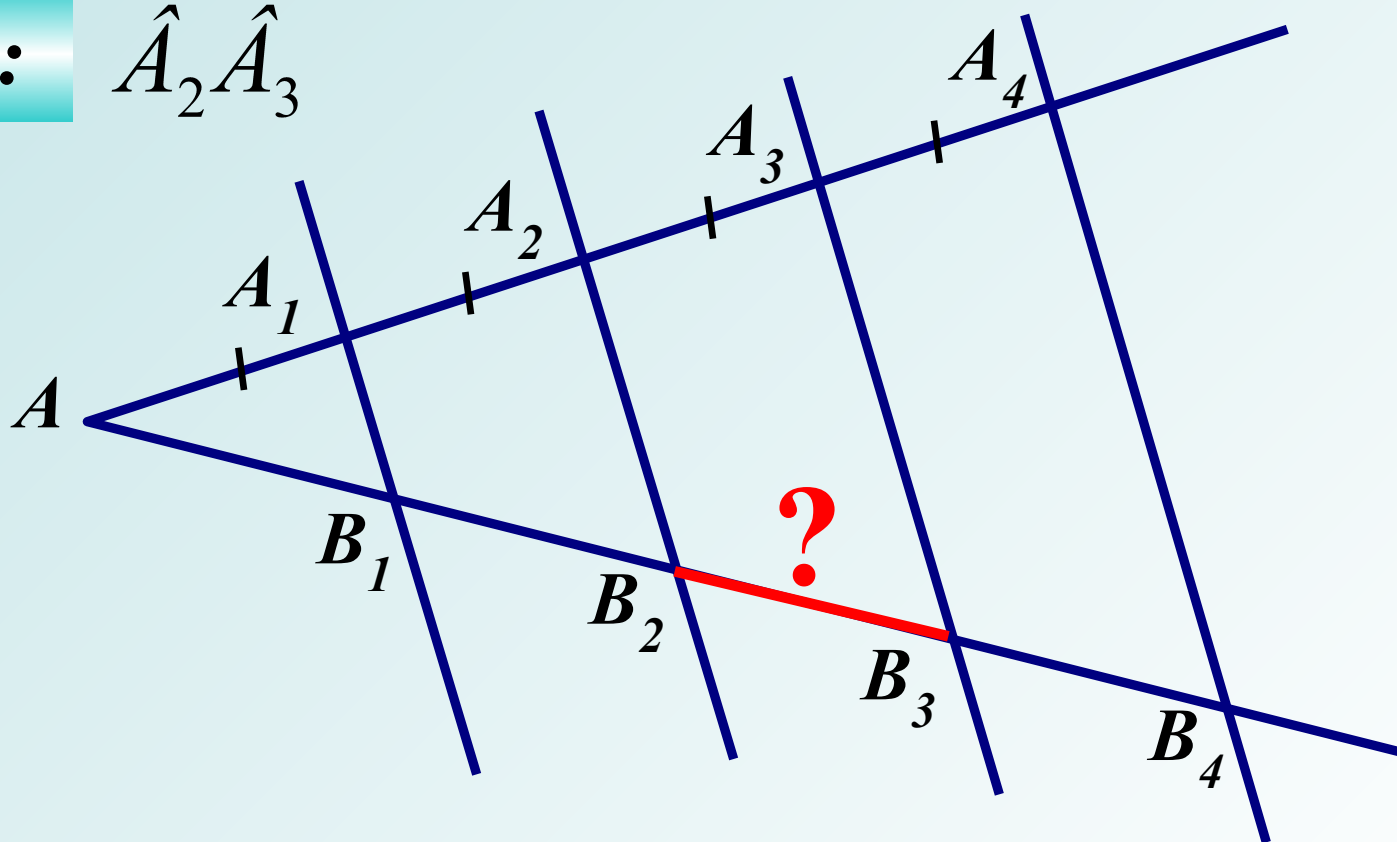
24.

**Дано:**

$$A_1B_1 \parallel A_2B_2 \parallel A_3B_3 \parallel A_4B_4$$
$$AA_1 = A_1A_2 = A_2A_3 = A_3A_4$$
$$AB_4 = 20\tilde{n}\tilde{i}$$

**Найти:**

$$\hat{A}_2\hat{A}_3$$

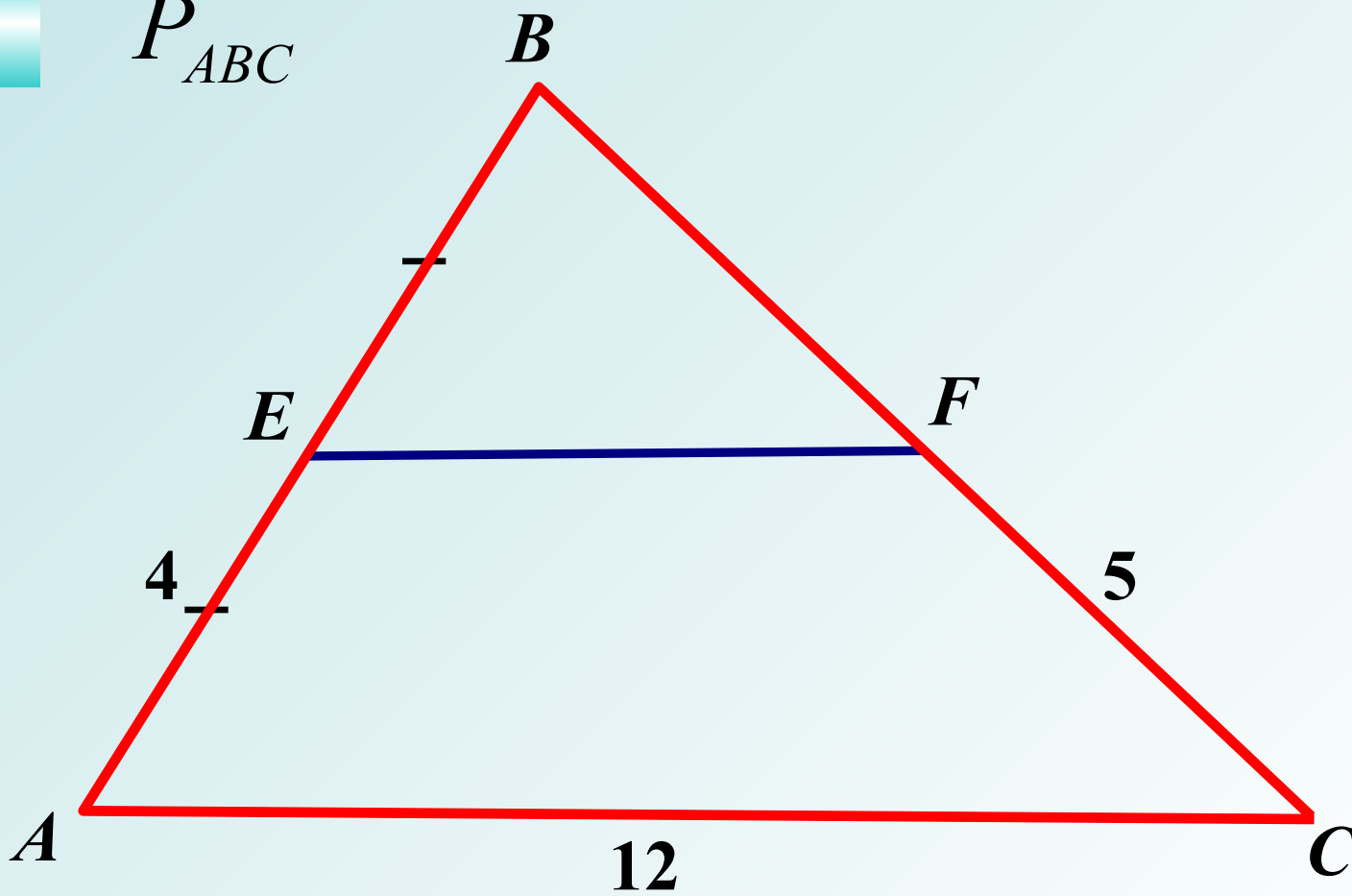


25.

Дано:  $EF \parallel AC$

Найти:

$P_{ABC}$



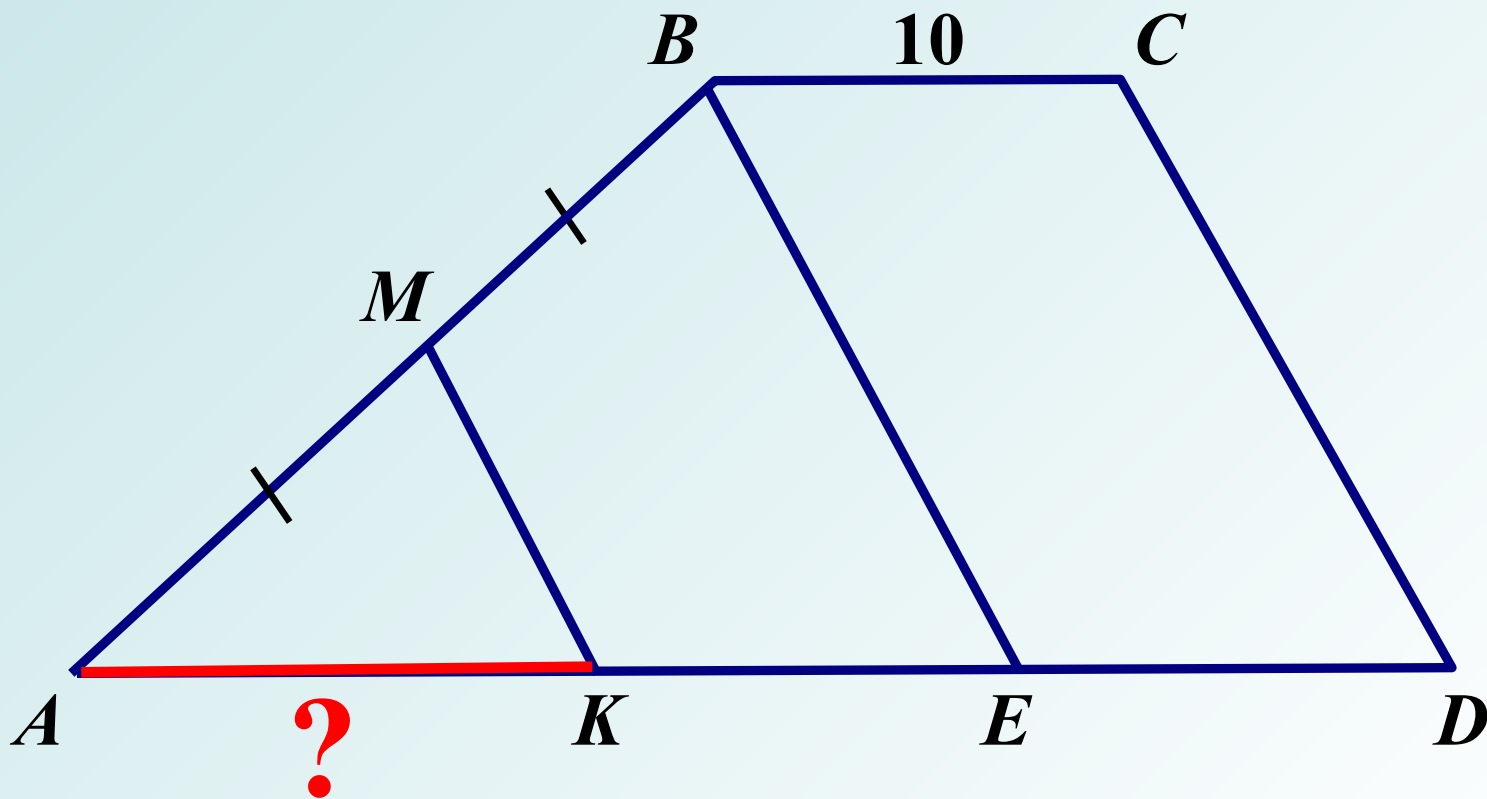
26.

*Дано:*

$МКПВЕПСD$ ,  $AD = 16$

*Найти:*

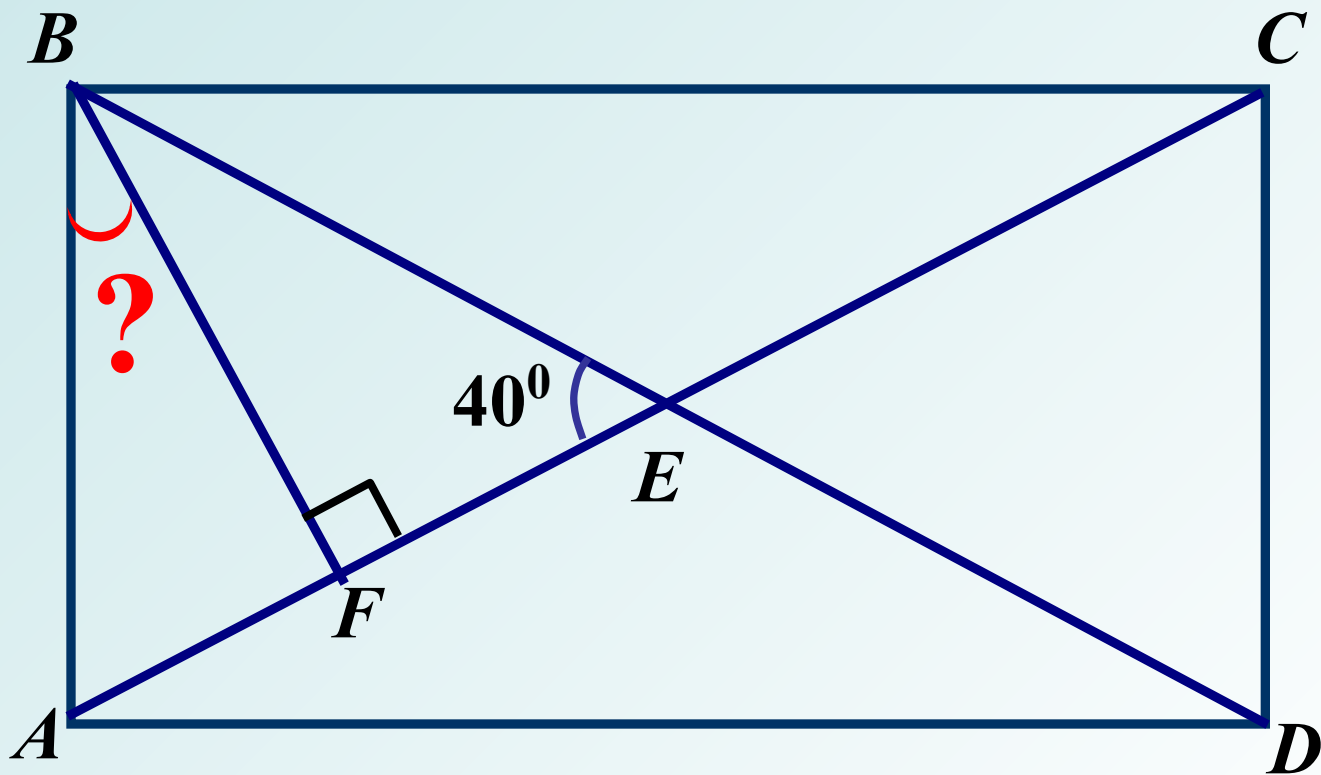
$AK$



27.

Дано:  $ABCD$  –  $i\delta y\ddot{i}\hat{i}o\tilde{a}\hat{i}e\ddot{u}$   $i\grave{e}\hat{e}$

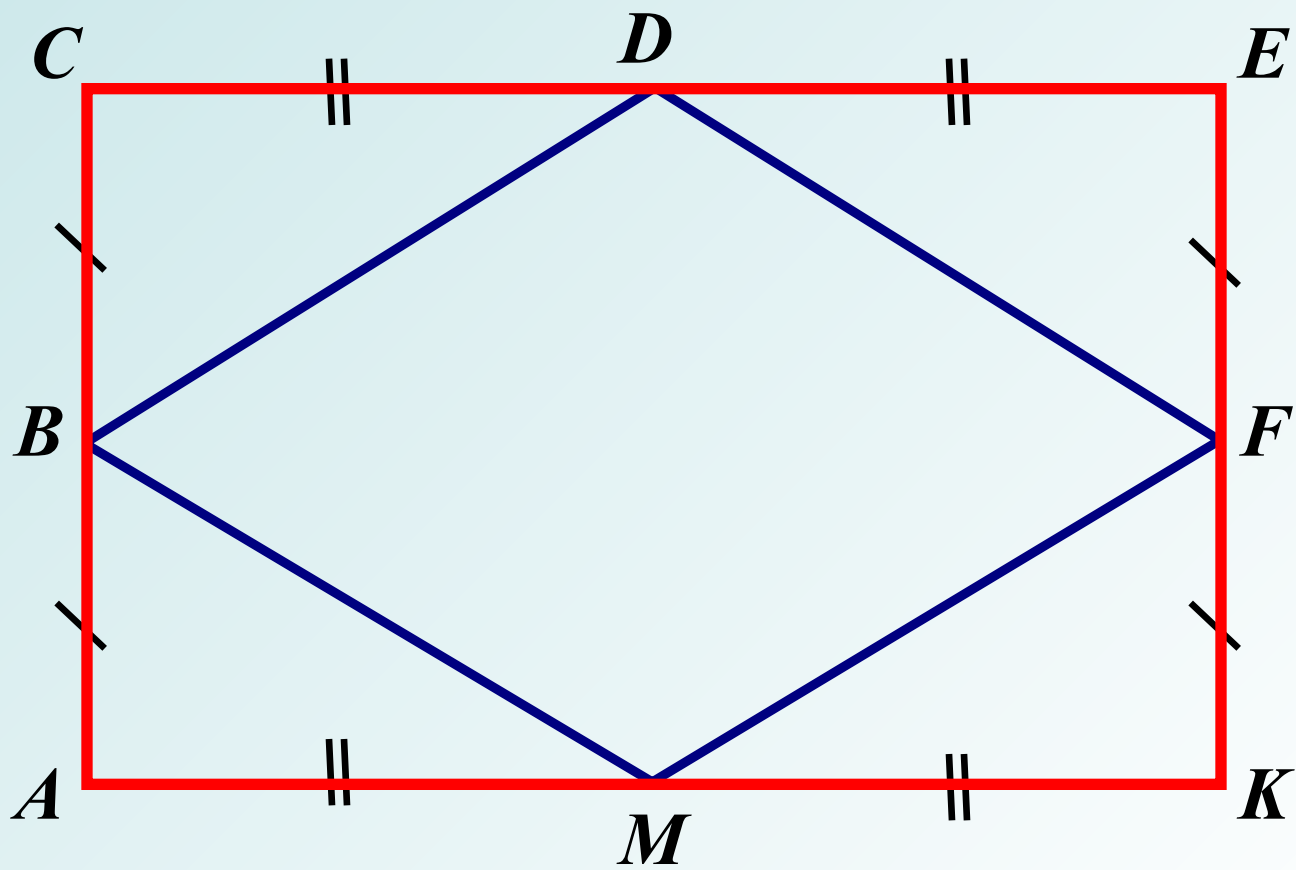
Найти:  $\angle ABF$



28.

**Дано:**  $ACEK$  –  $i\ddot{o}\ddot{y}\ddot{i}\ddot{i}\ddot{o}\ddot{a}\ddot{i}\ddot{e}\ddot{u}$   $i\ddot{e}\ddot{e}$   
 $BC = 5ci$

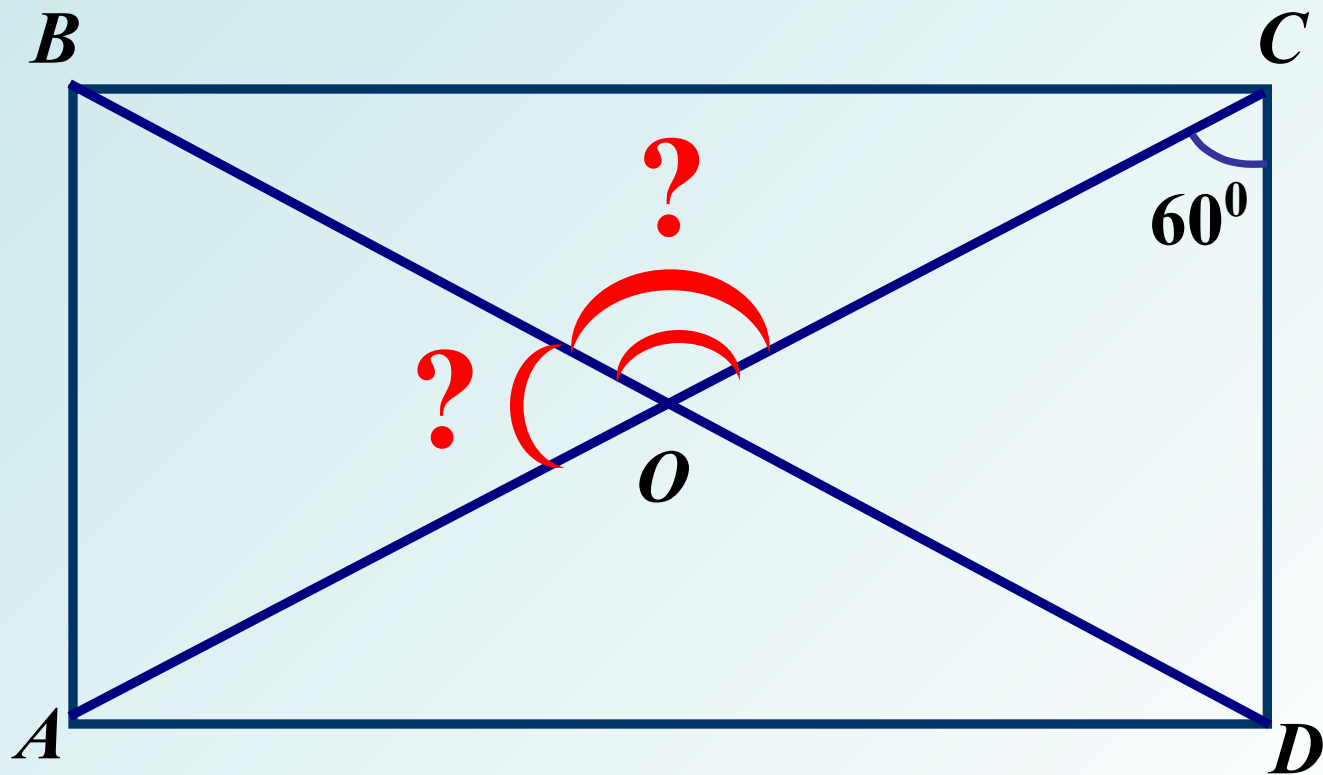
**Найти:**  $P_{BDFM}$



29.

Дано:  $ABCD$  –  $ïðÿìîóãîëü$   $íèêë$

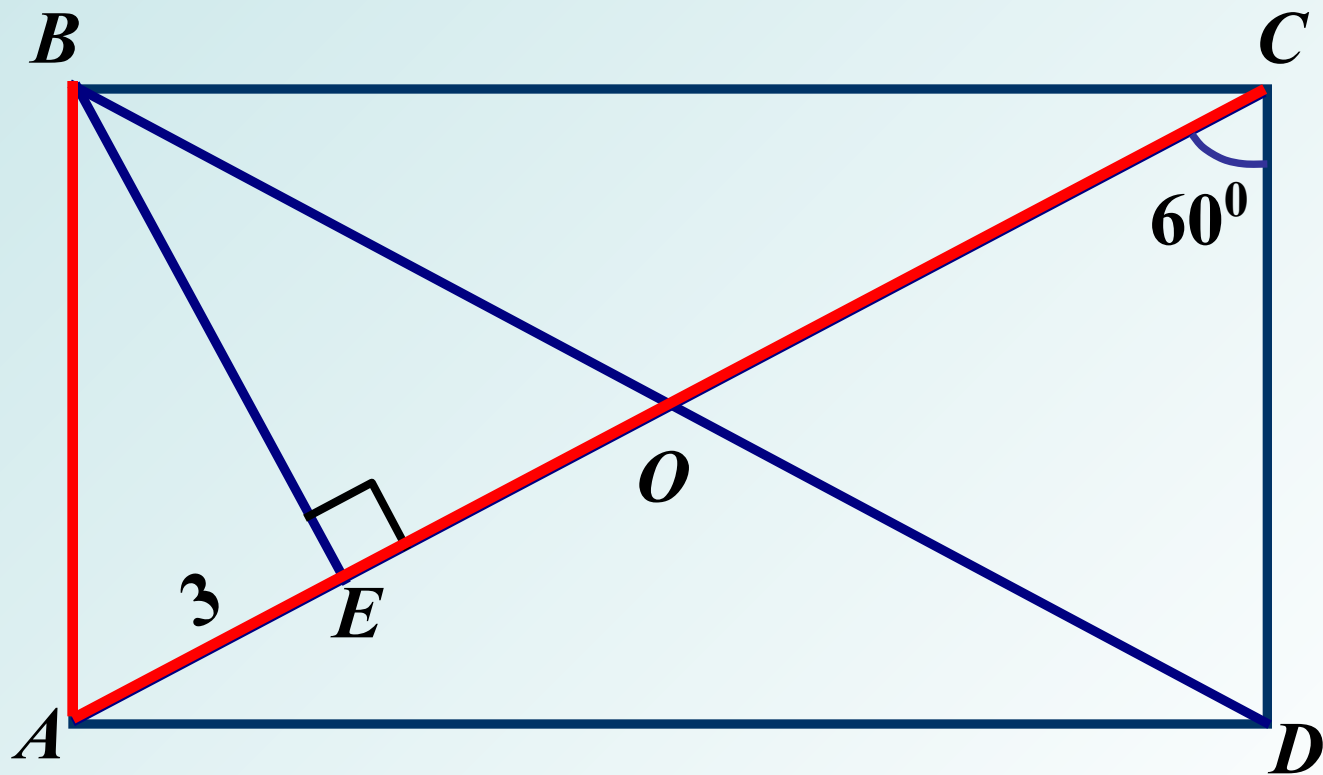
Найти:  $\angle A\hat{I}B$ ,  $\angle A\hat{I}N$



30.

Дано:  $ABCD$  –  $\text{ïðÿìîóãîëü}$   $\text{íèê}$

Найти:  $AN$ ,  $\hat{A}$

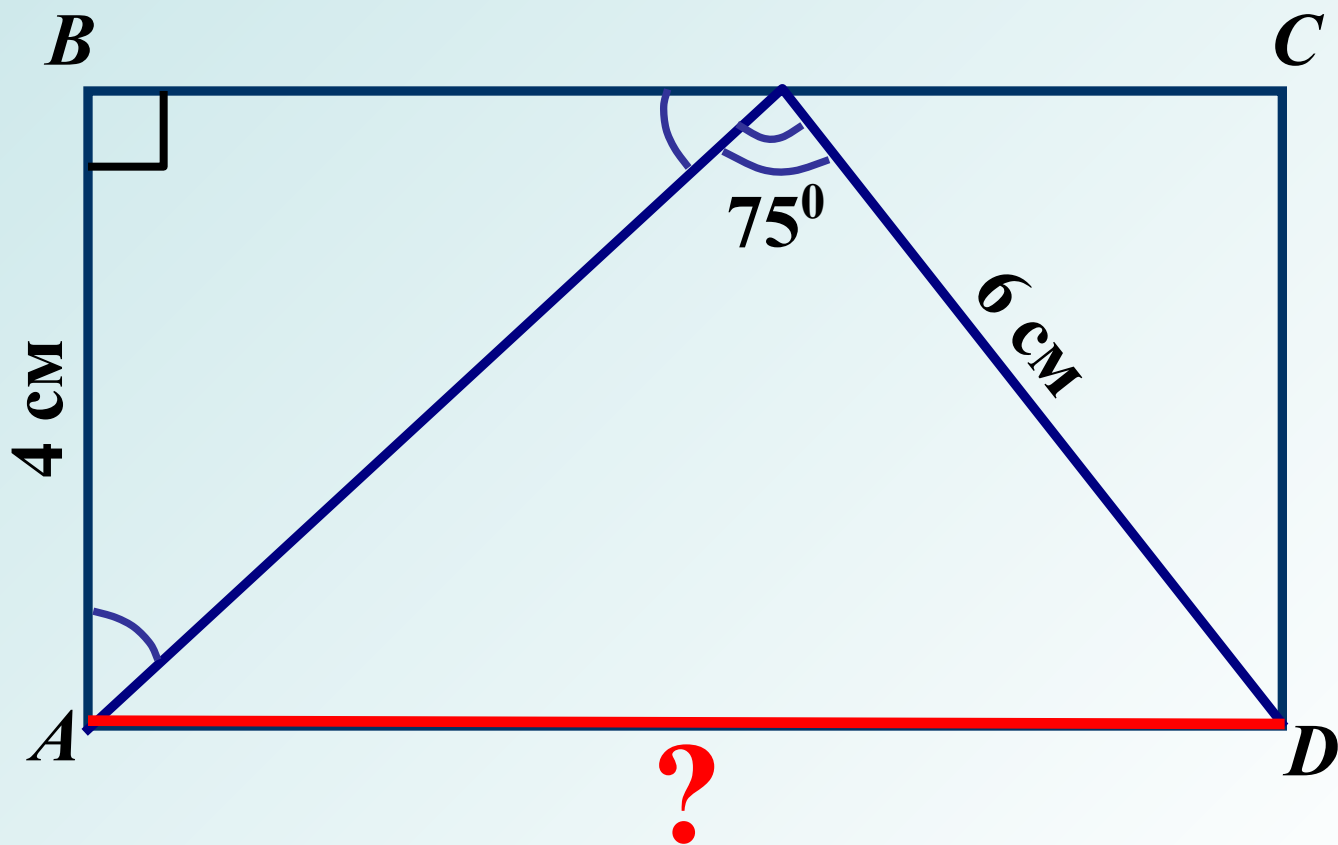




31.

Дано:  $ABCD$  –  $\text{прямоугольник}$   $AB = 4 \text{ см}$ ,  $BC = 6 \text{ см}$ ,  $\angle C = 75^\circ$

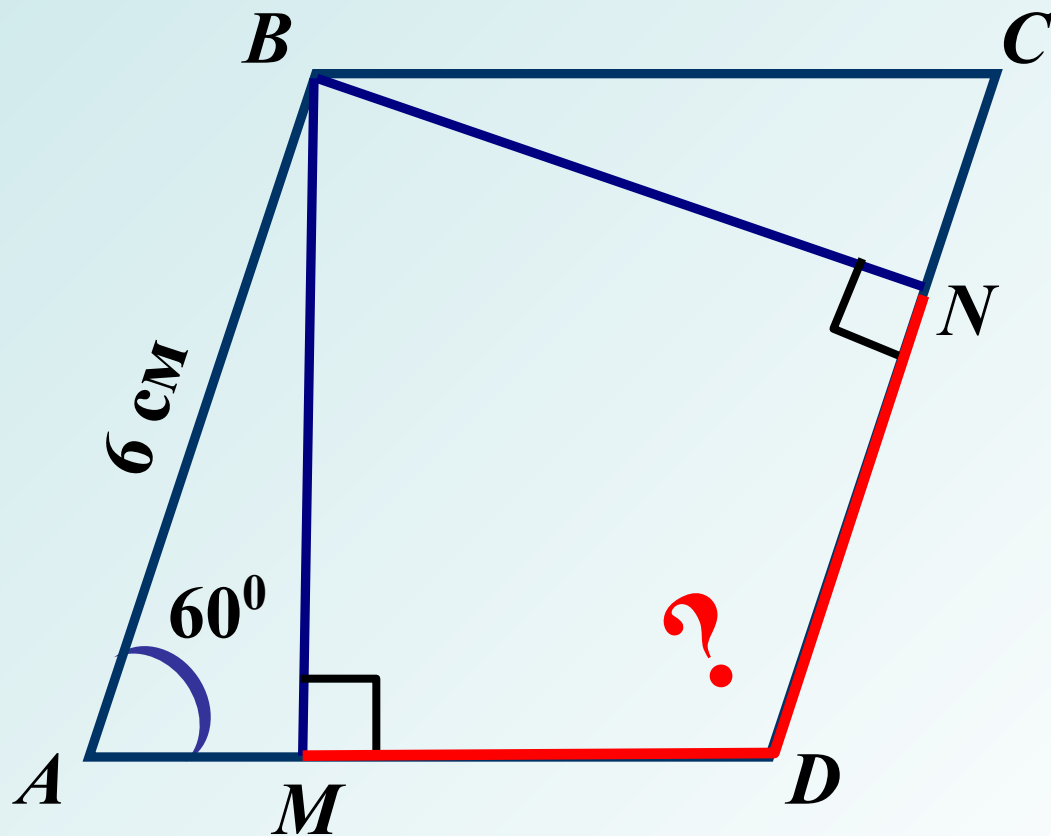
Найти:  $AD$



32.

Дано:  $ABCD$  – діїа

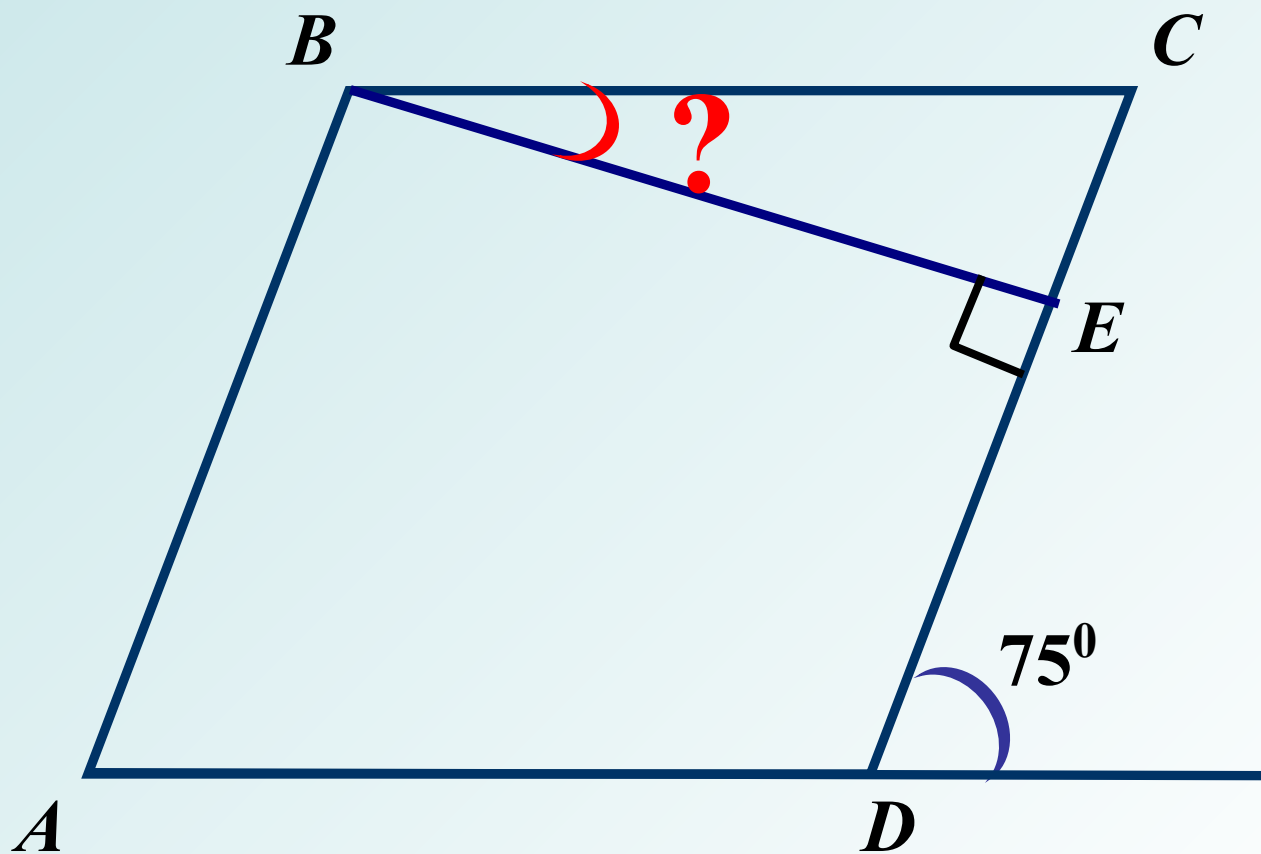
Найти:  $MD + DN$



33.

Дано:  $ABCD$  – діїа

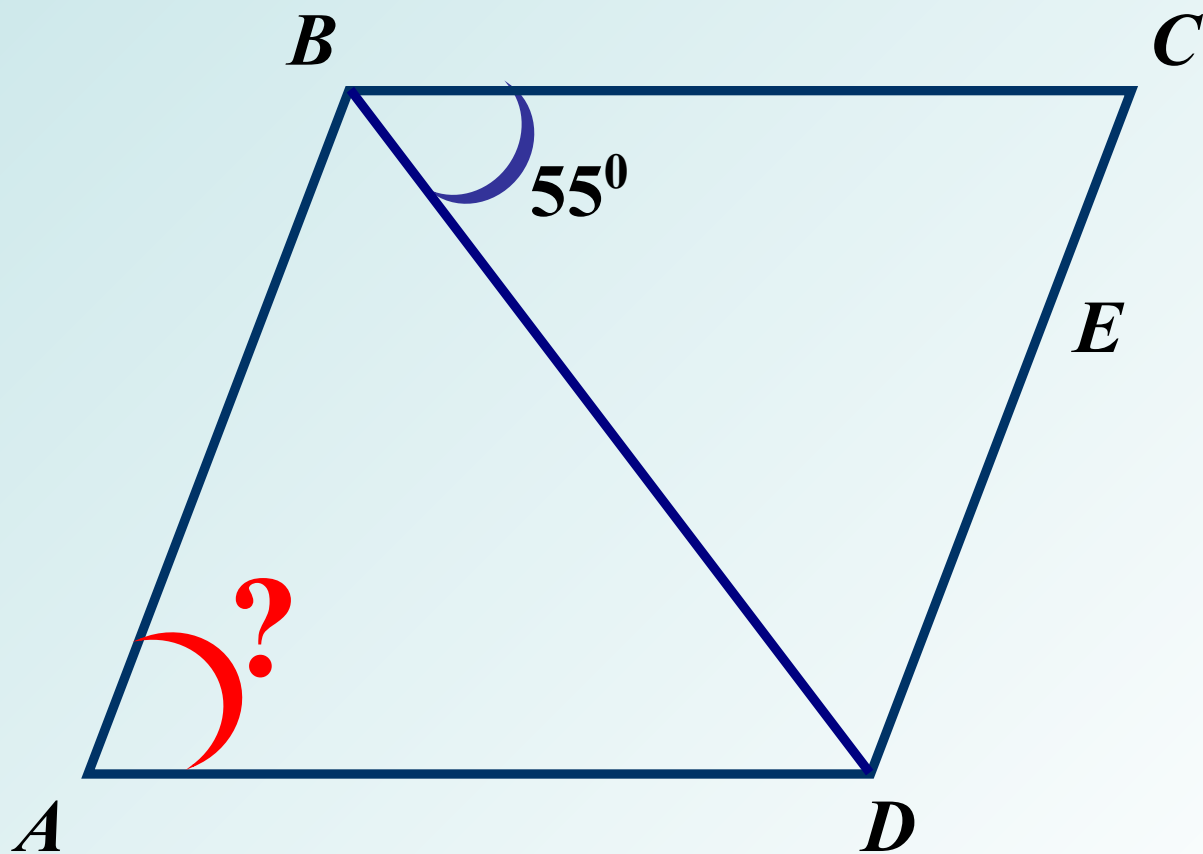
Найти:  $\angle \tilde{N}BA$



34.

Дано:  $ABCD$  – δία

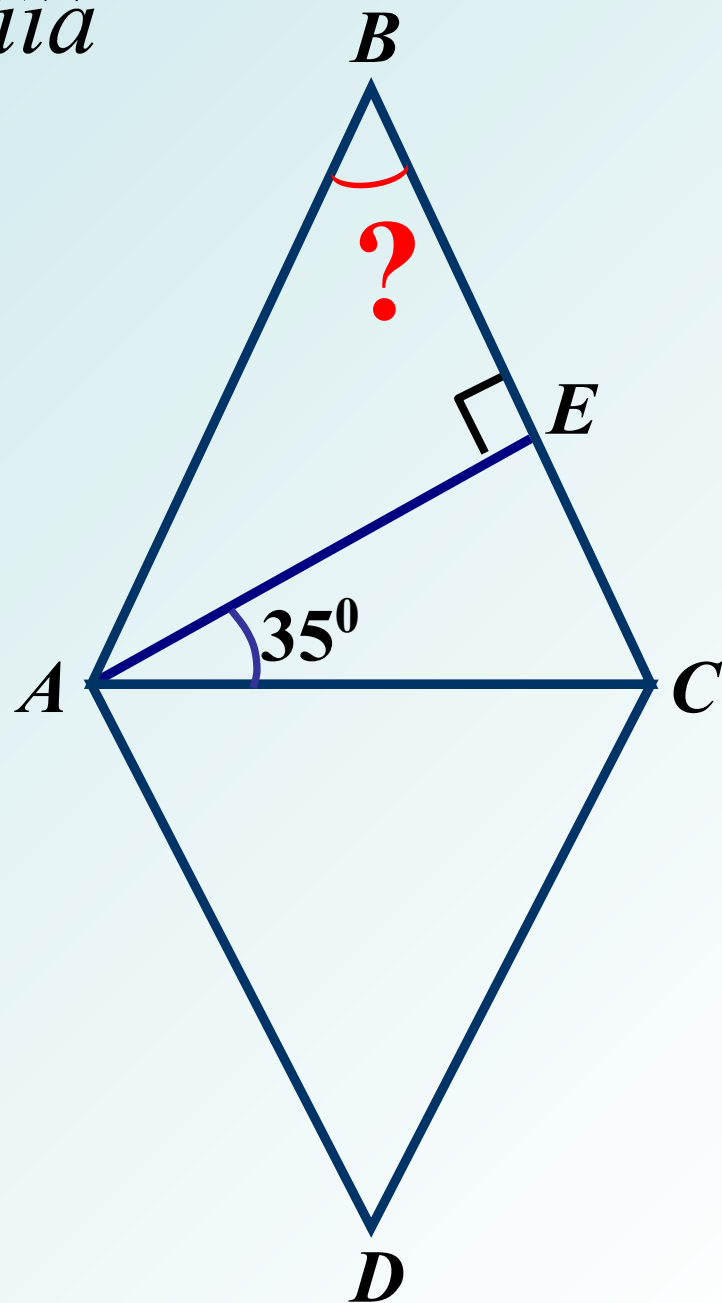
Найти:  $\angle B\hat{A}D$



35.

Дано:  $ABCD$  – діа́

Найти:  $\angle ABC$



36.

Дано:

$ABCD$  – квадрат

$$DE = 2\sqrt{3}, AE = \sqrt{3}$$

Найти:

$P_{ABCD}$

