

Решение задач

на готовых чертежах.

Четырёхугольники.

Геометрия.

8 класс.

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МОУ СОШ №256 г.Фокино*



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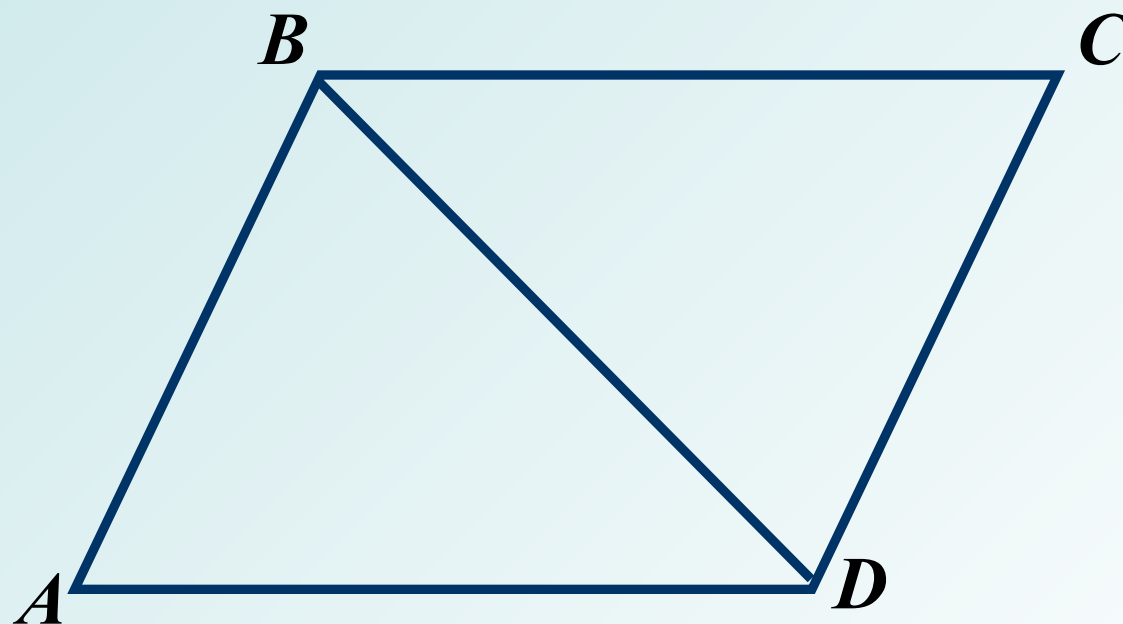
1.

Дано:

$AB \parallel CD; BC \parallel AD$

Доказать:

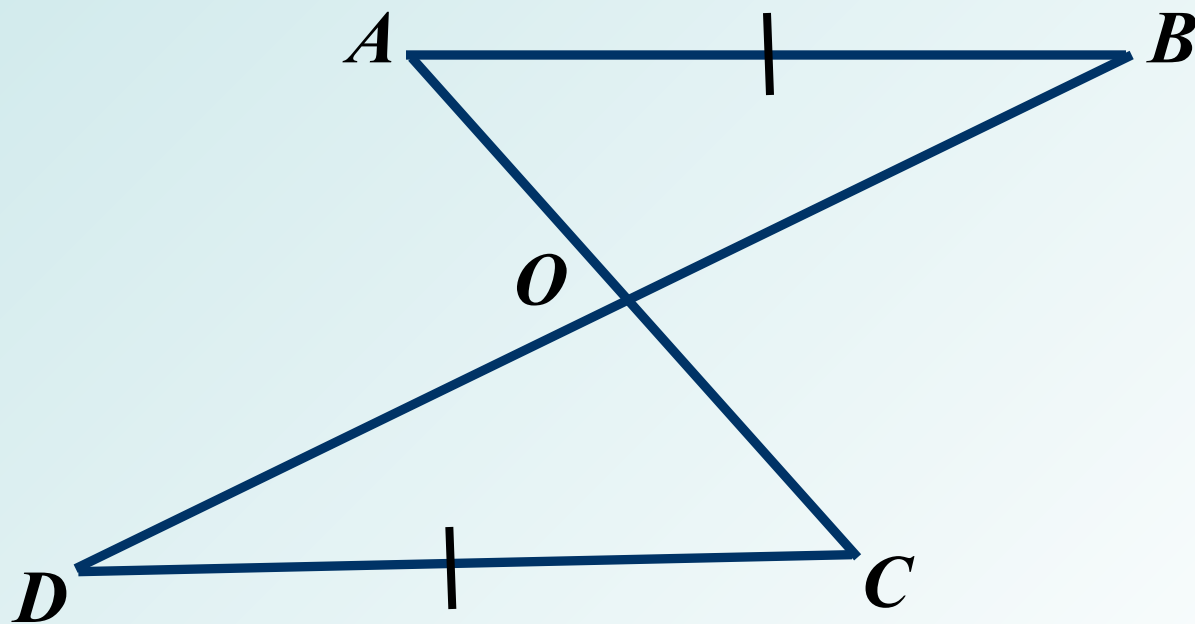
$BC = AD; \angle A = \angle C$



2.

Дано: $AB \parallel CD$; $AB = CD$

Доказать: O – середина AC и BD



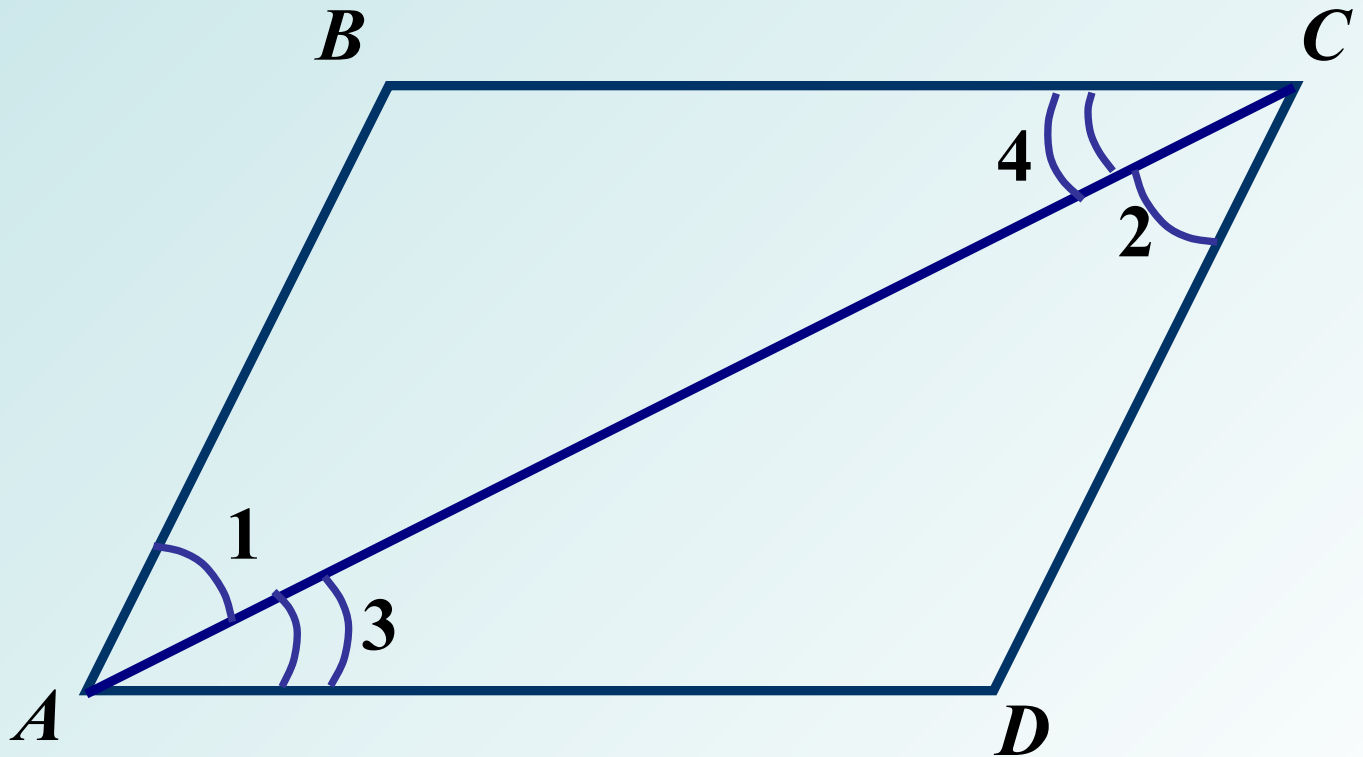
3.

Дано:

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

Доказать:

$ABCD$ – параллелограмм



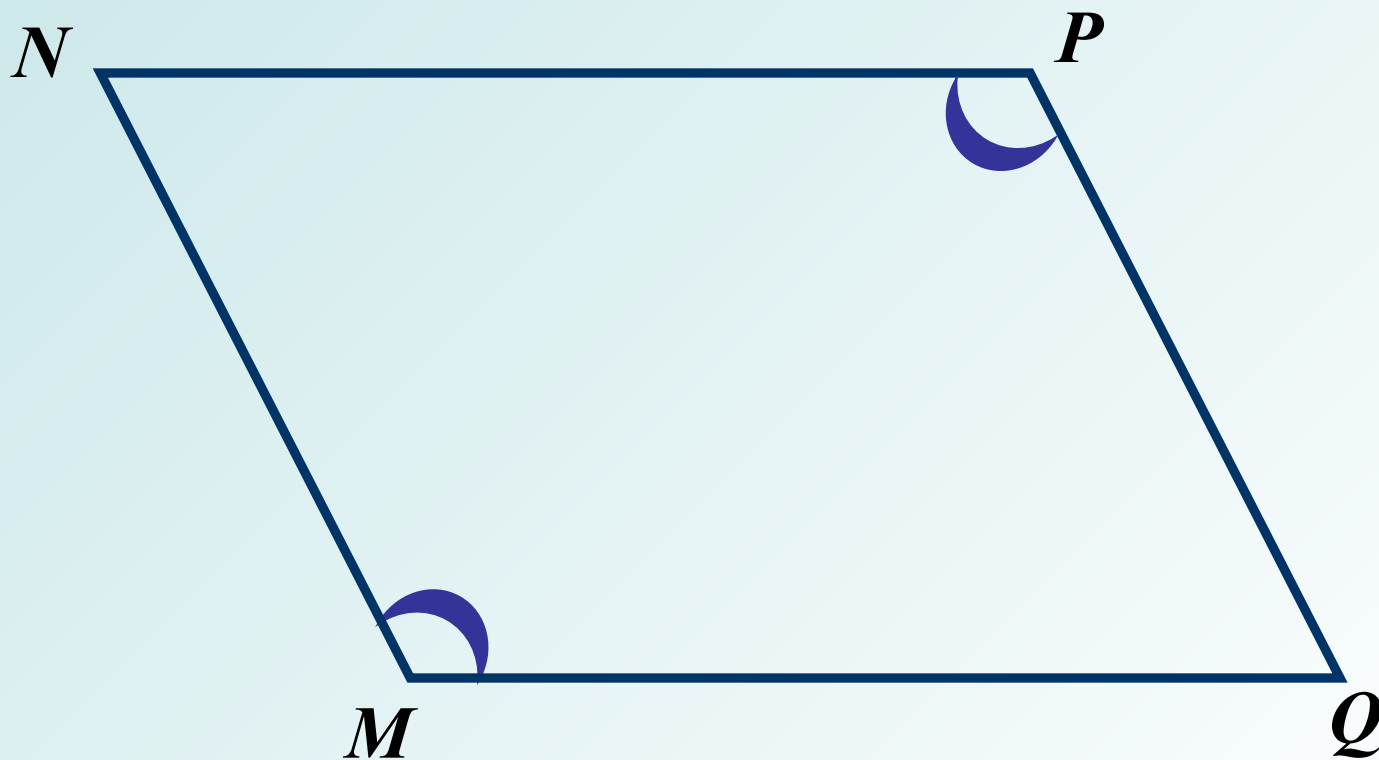
4.

Дано:

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

Доказать:

$MNPQ$ – *iaäëëäëiã ðàìì*



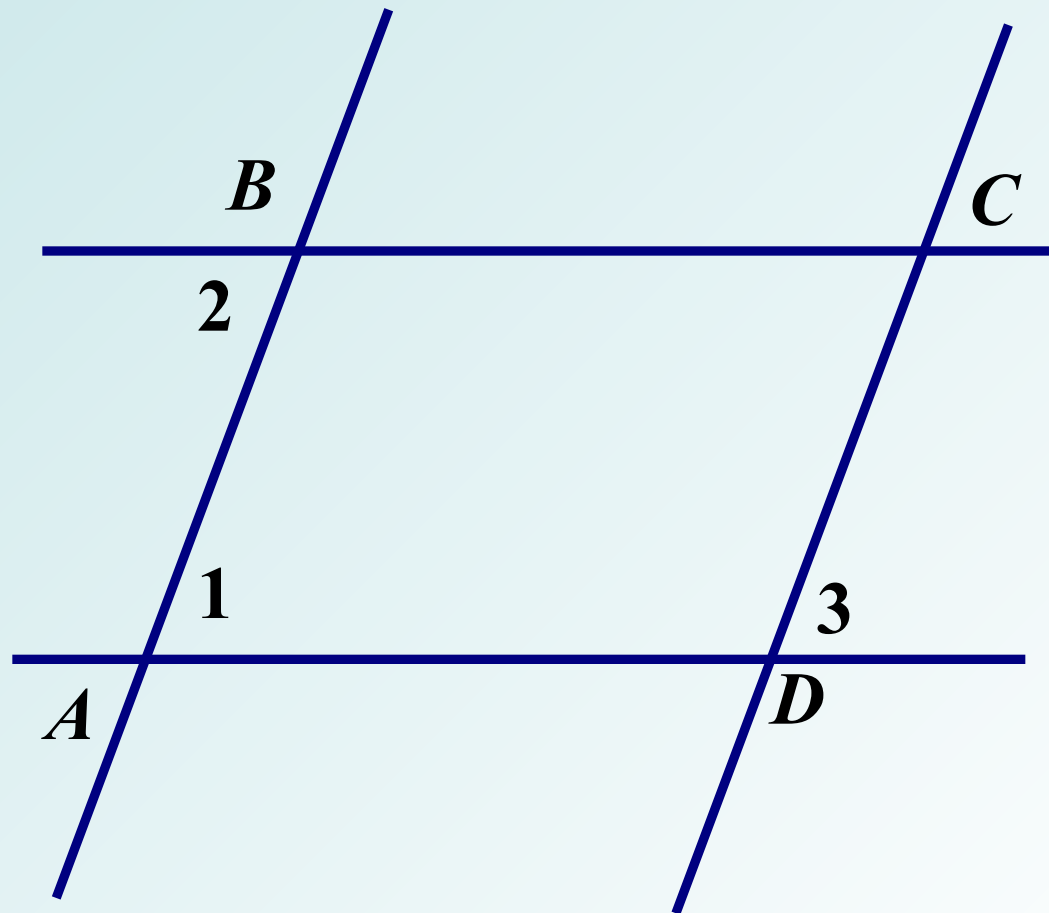
5.

Дано:

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

Доказать:

$ABCD$ – параллелограмм



6.

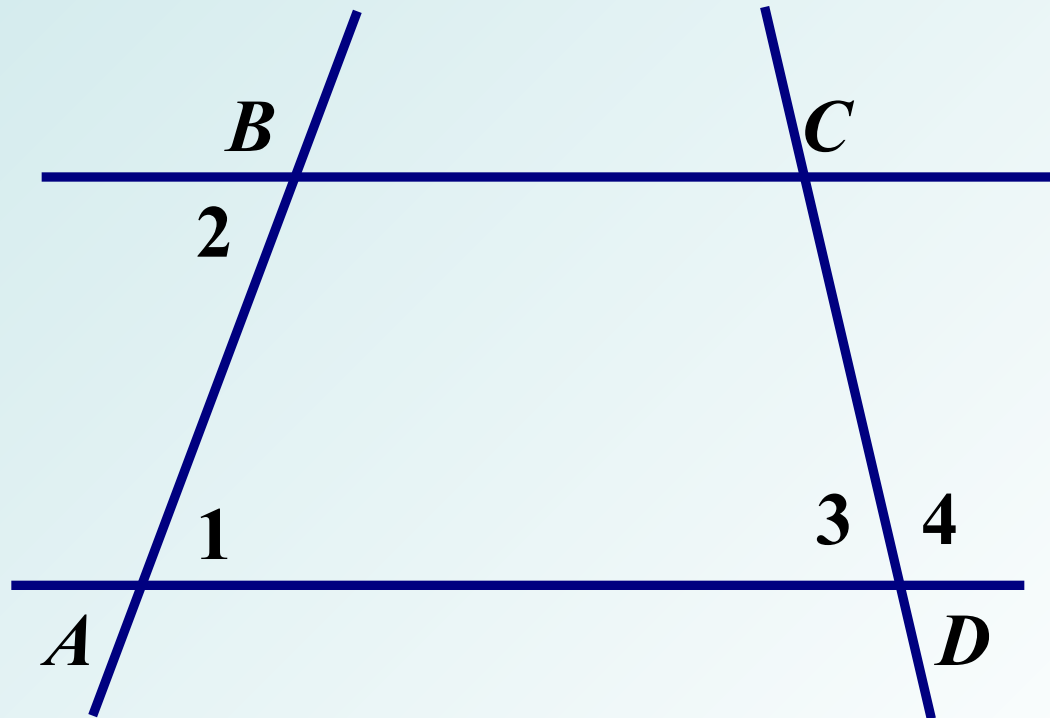
Дано:

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:

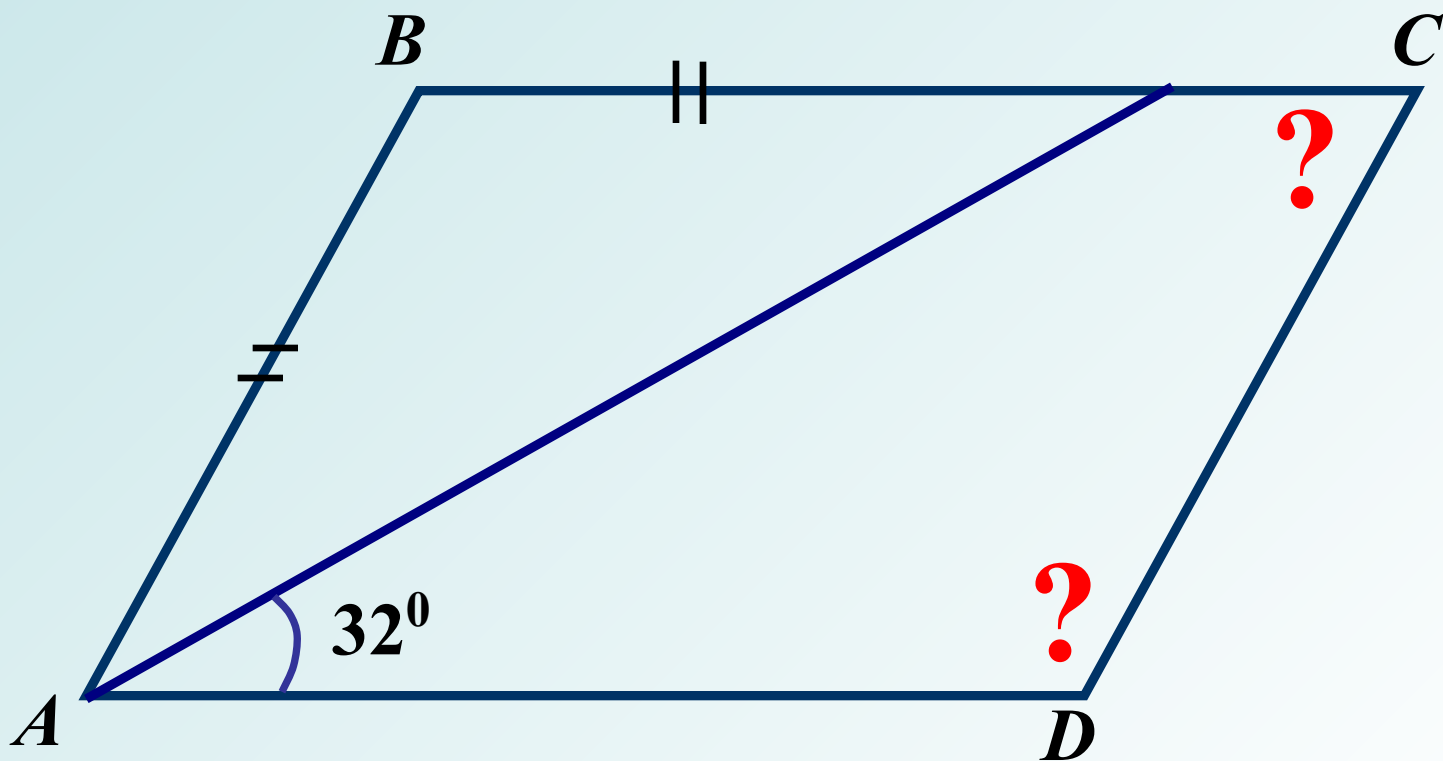
βâëÿãòñÿ èè ABCD ìàðàëëãëïã ðàììì



7.

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

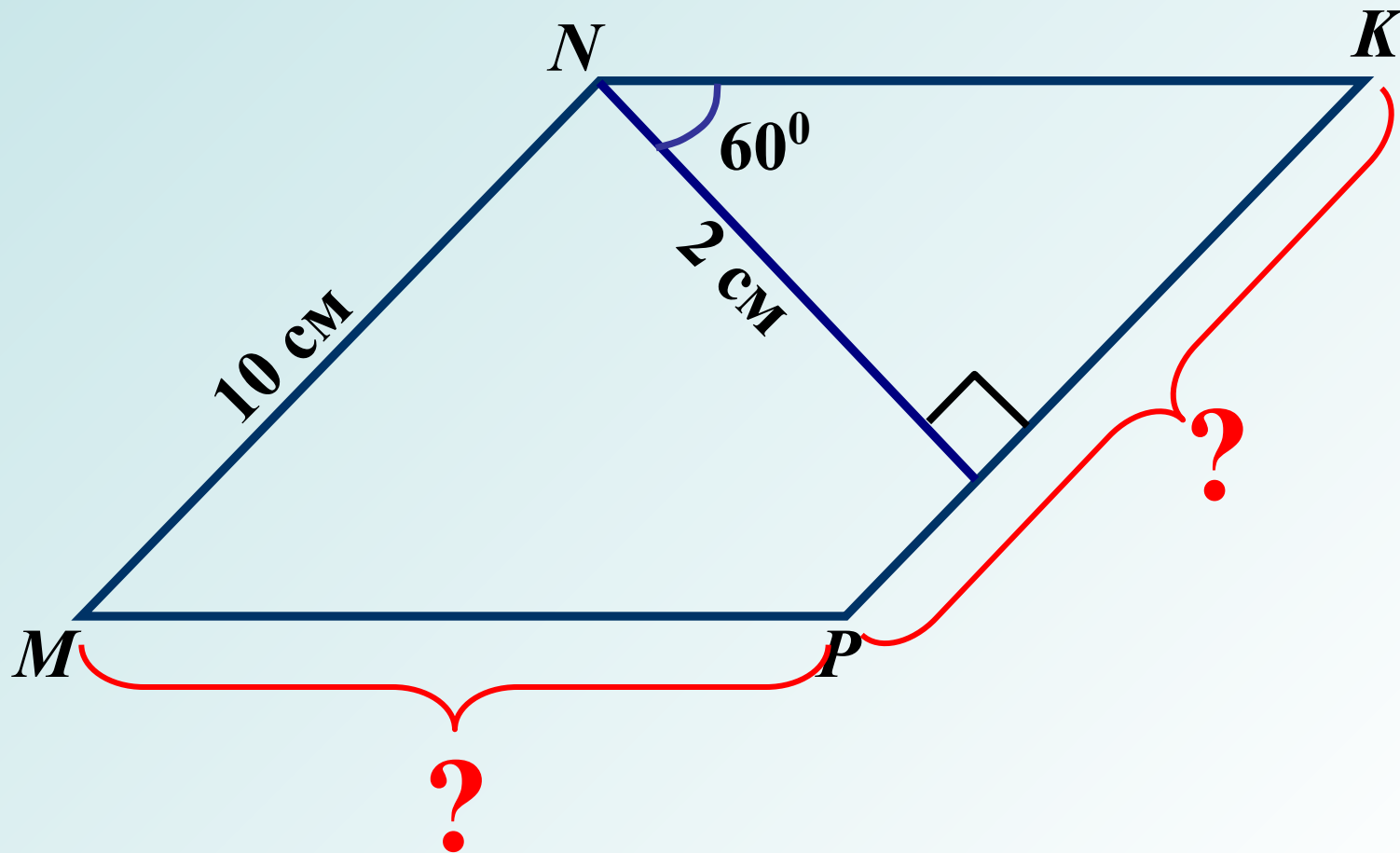
Найти: $\angle C, \angle D$



8.

Дано: $MNKP$ – трапеция

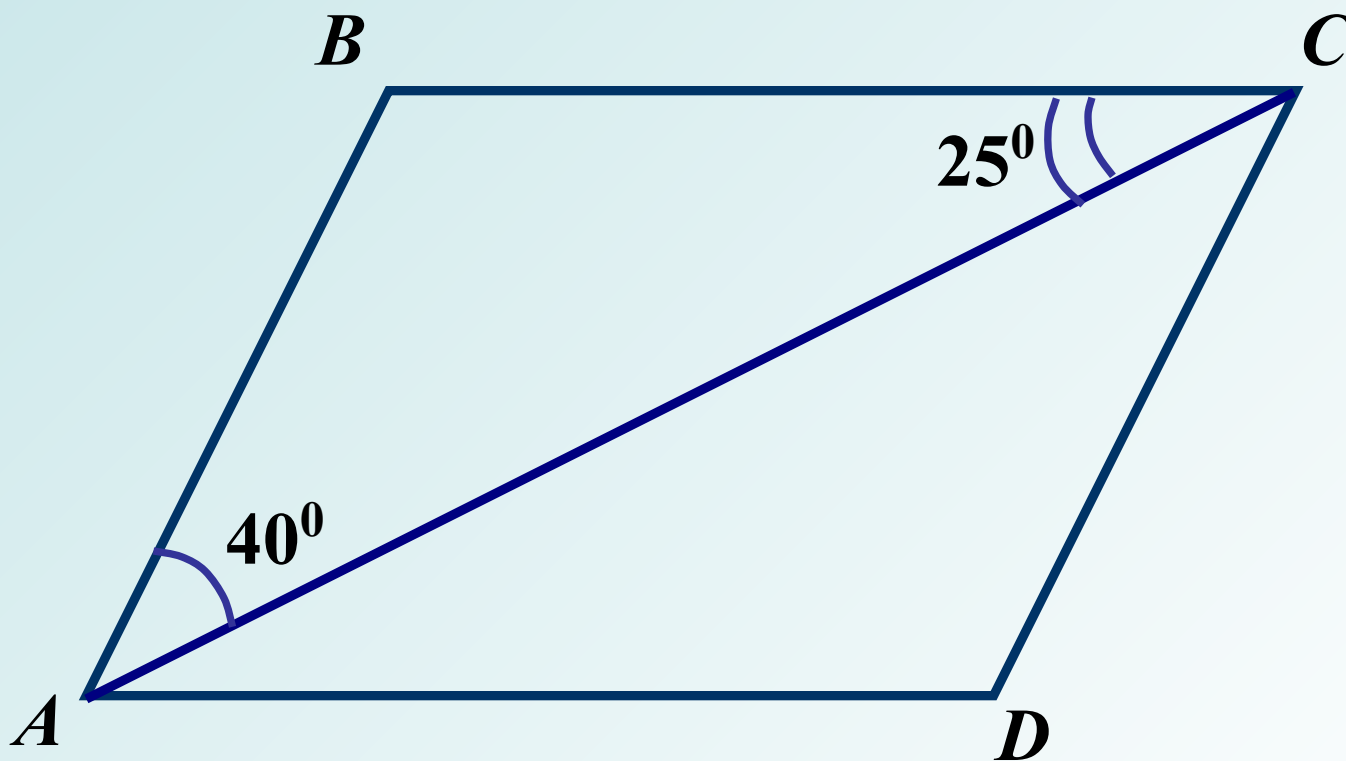
Найти: MP ; PK



9.

Найти:

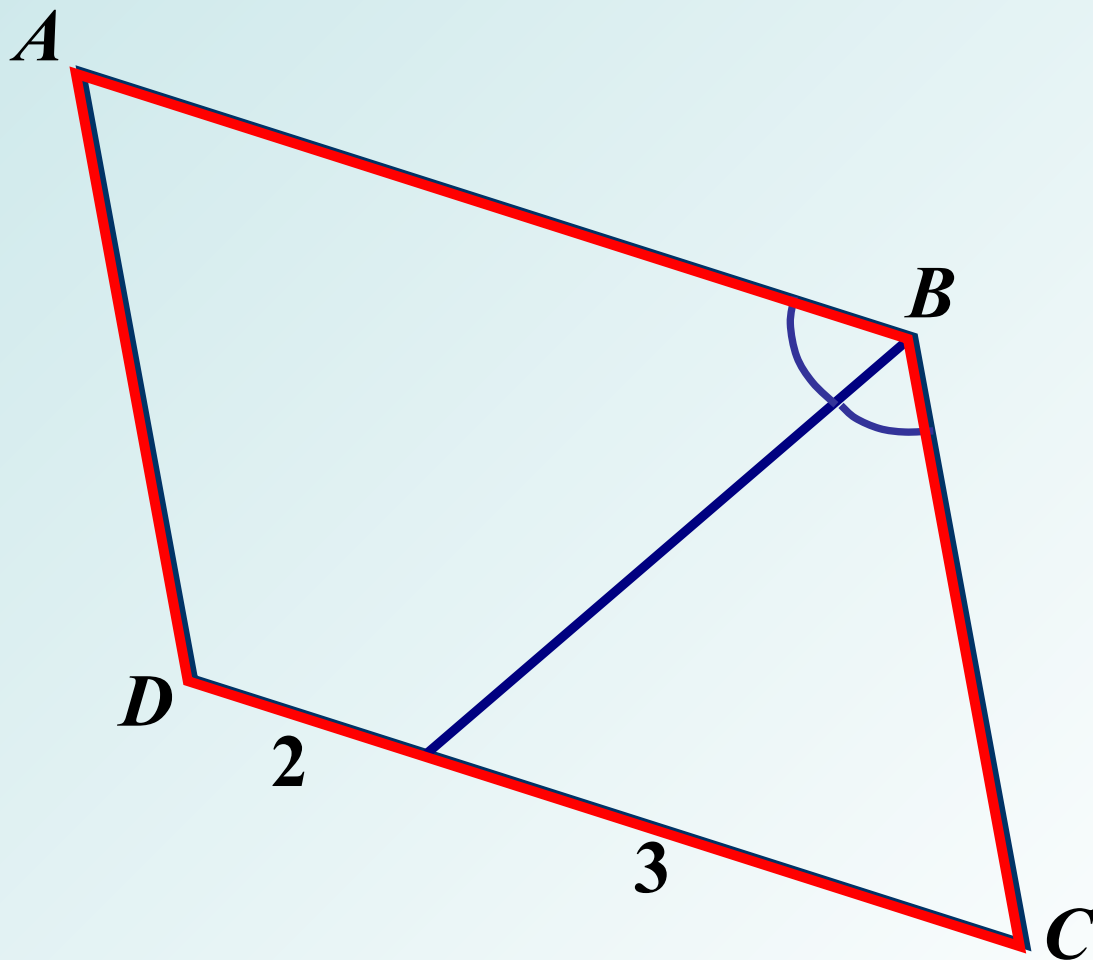
óãëû ìàðàëëäëîã ðàìà ABCD



10.

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

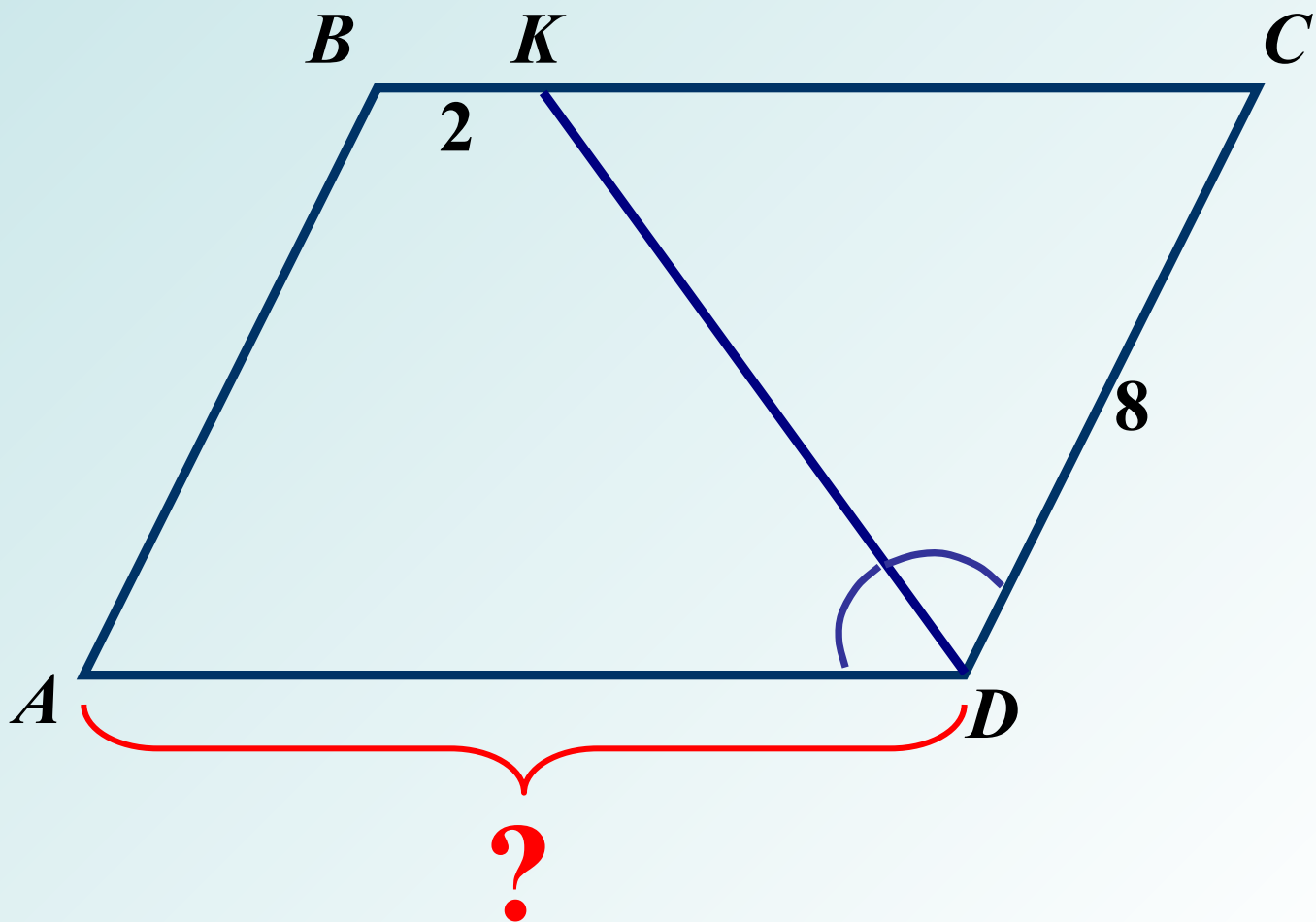
Найти: P_{ABCD}



11.

Дано: $ABCD$ – трапеция

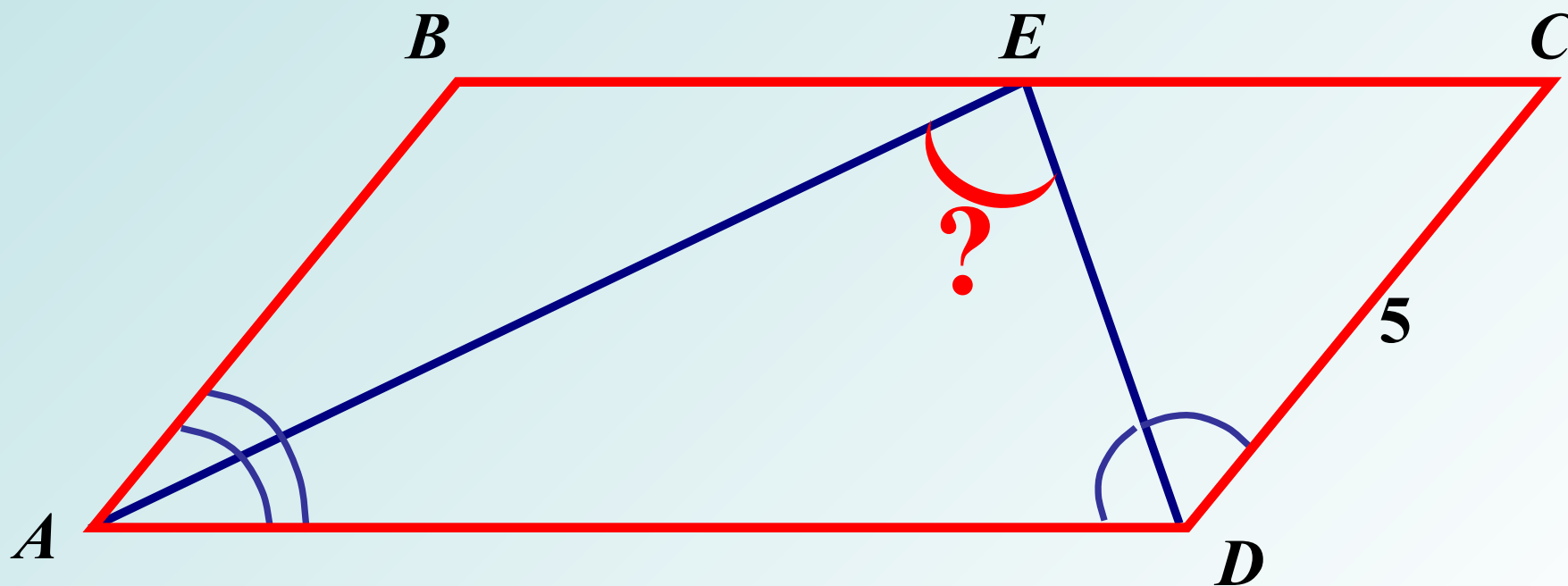
Найти: AD



12.

Дано: $ABCD$ – ïàðàëëäëïã ðàì

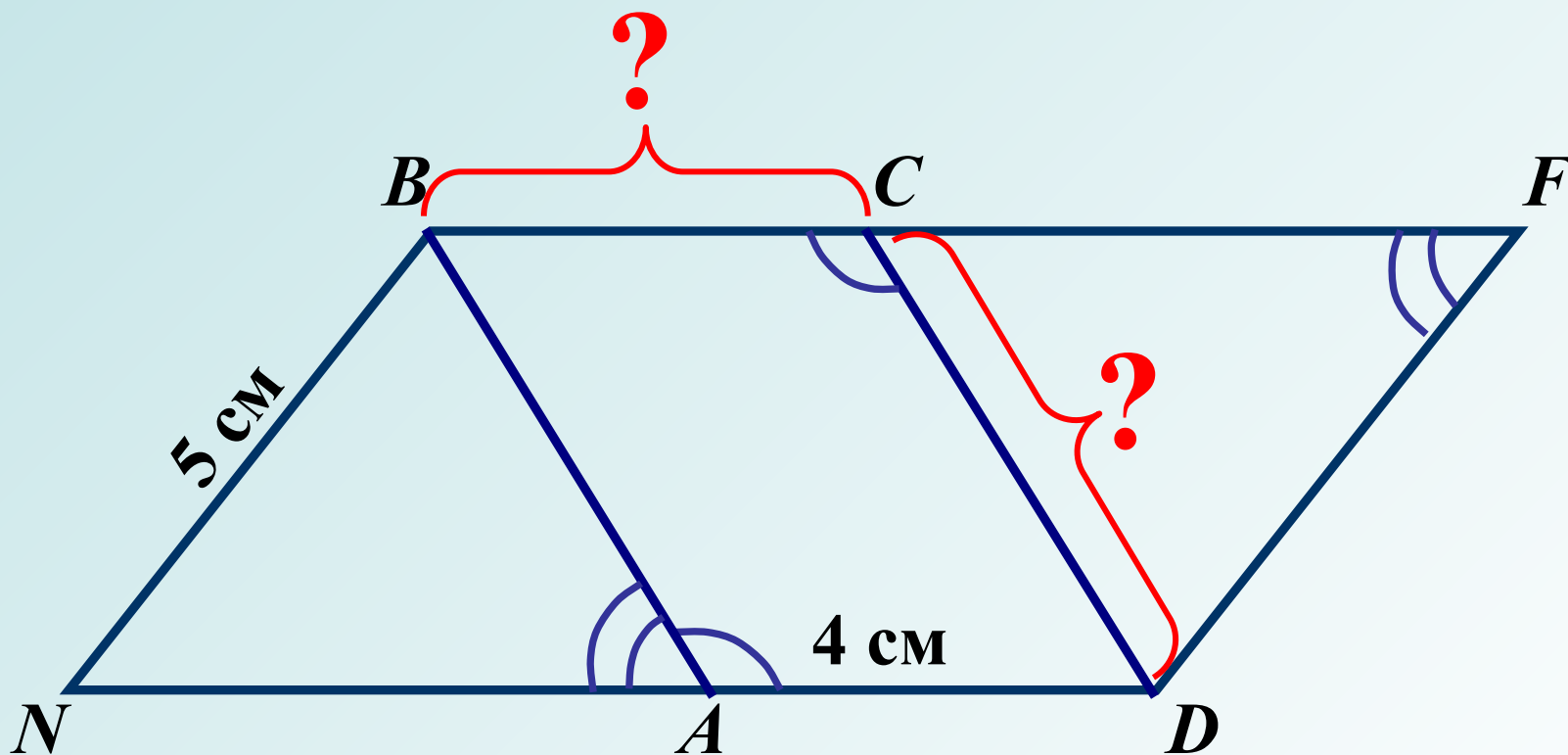
Найти: P_{ABCD} , $\angle AED$



13.

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

Найти: AN , CD

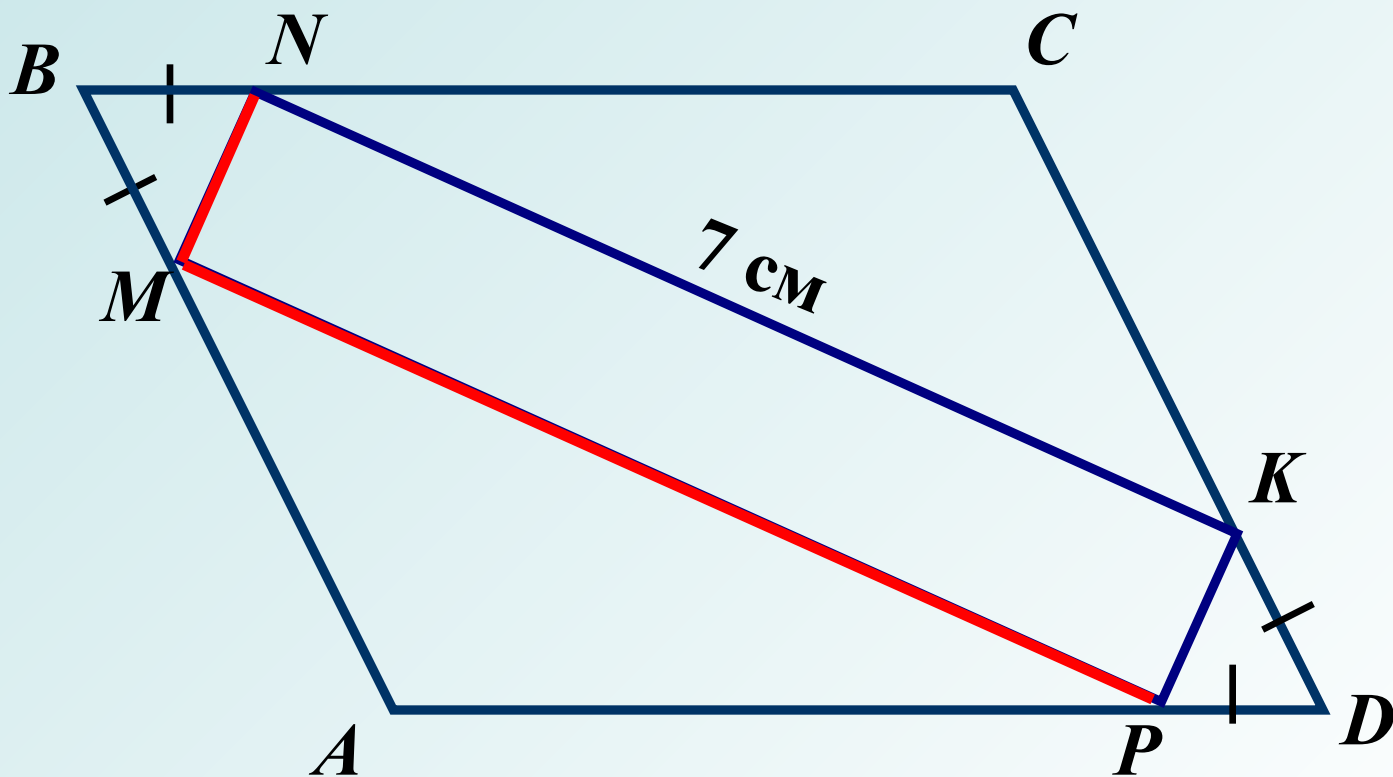


14.

Дано: $ABCD$ – параллелограмм

$$P_{MNKP} = 20 \text{ см}^2$$

Найти: MN, MP



15.

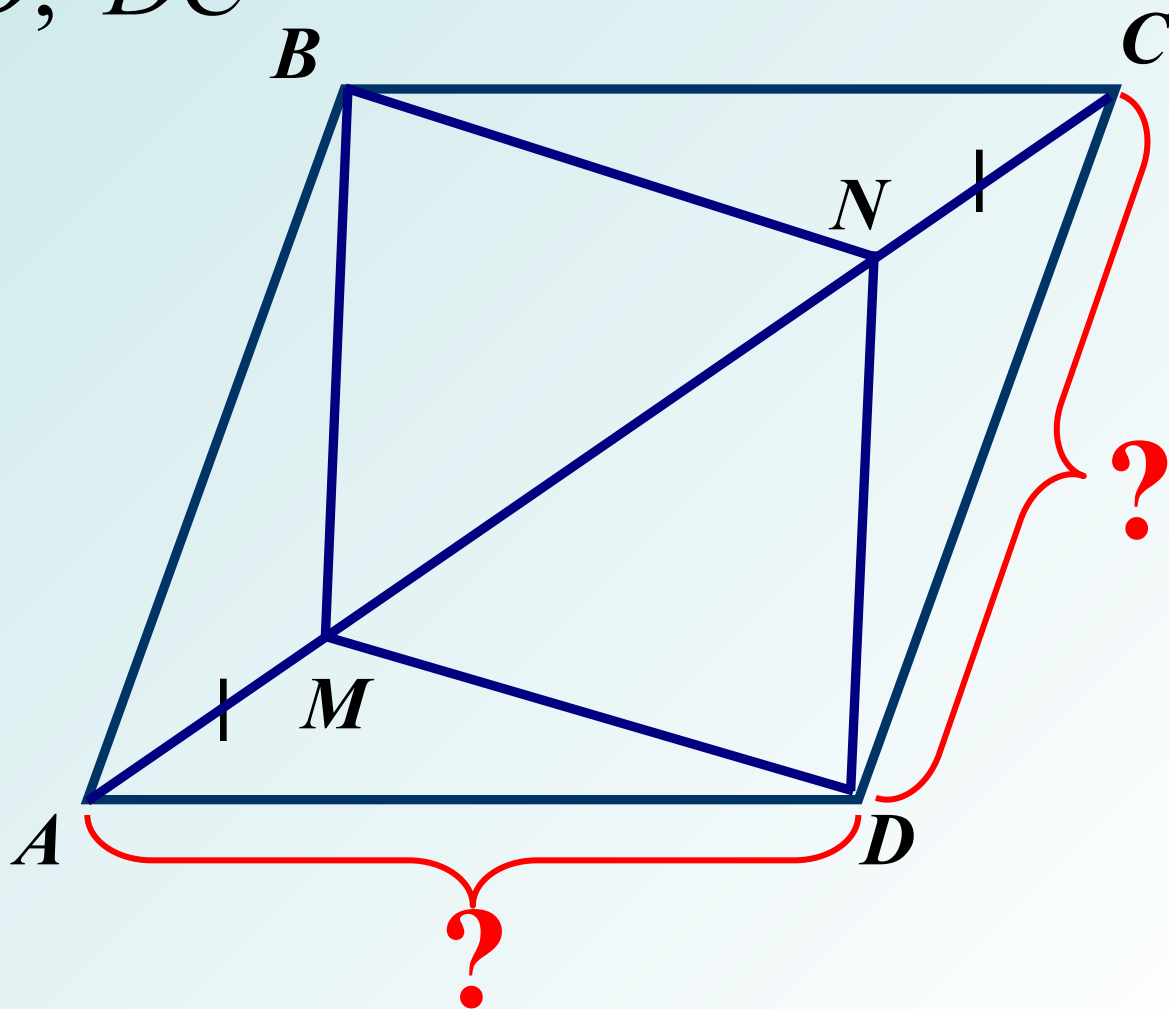
Дано:

$BNDM$ – параллелограм

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

Найти:

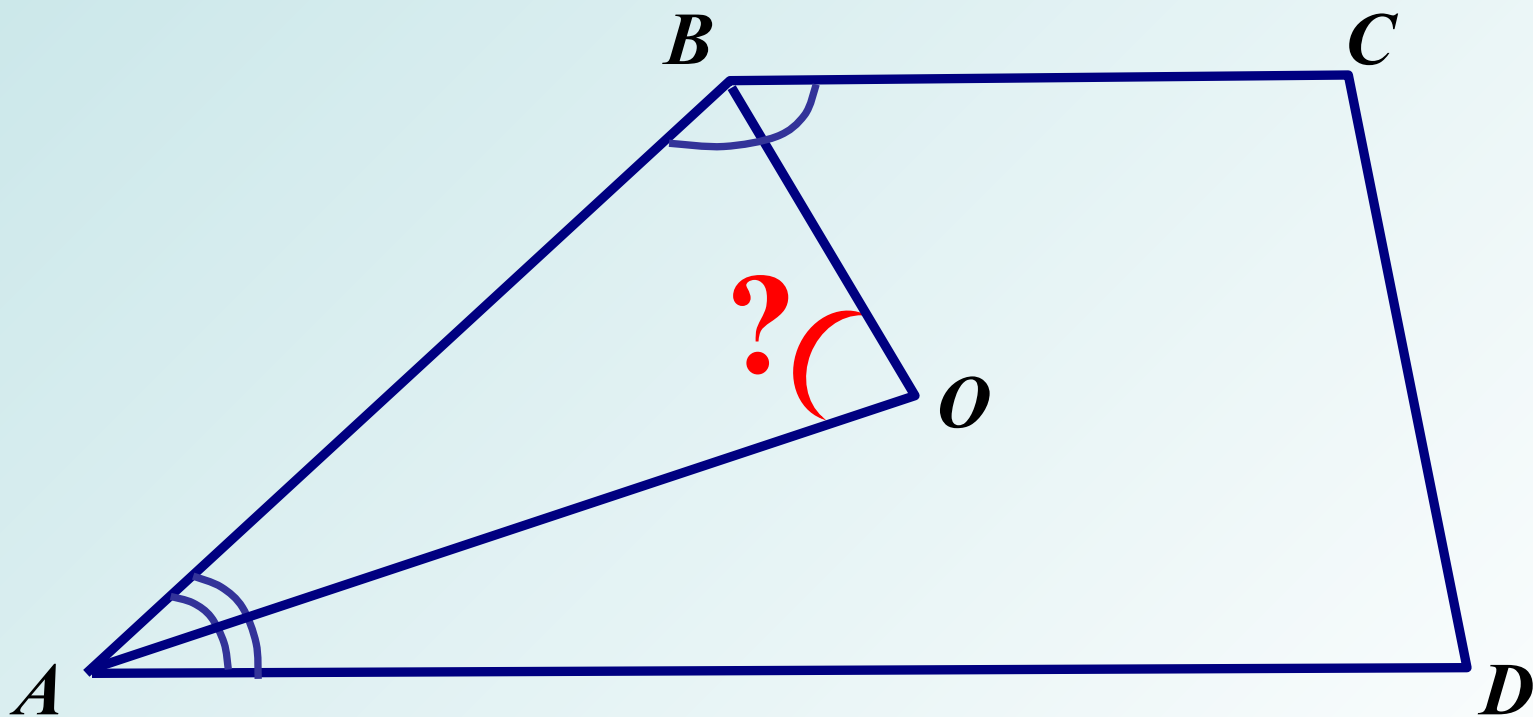
AD, DC



16.

Дано: $ABCD$ – о́дàìàòöèÿ

Найти: $\angle A_1A_2A_3$

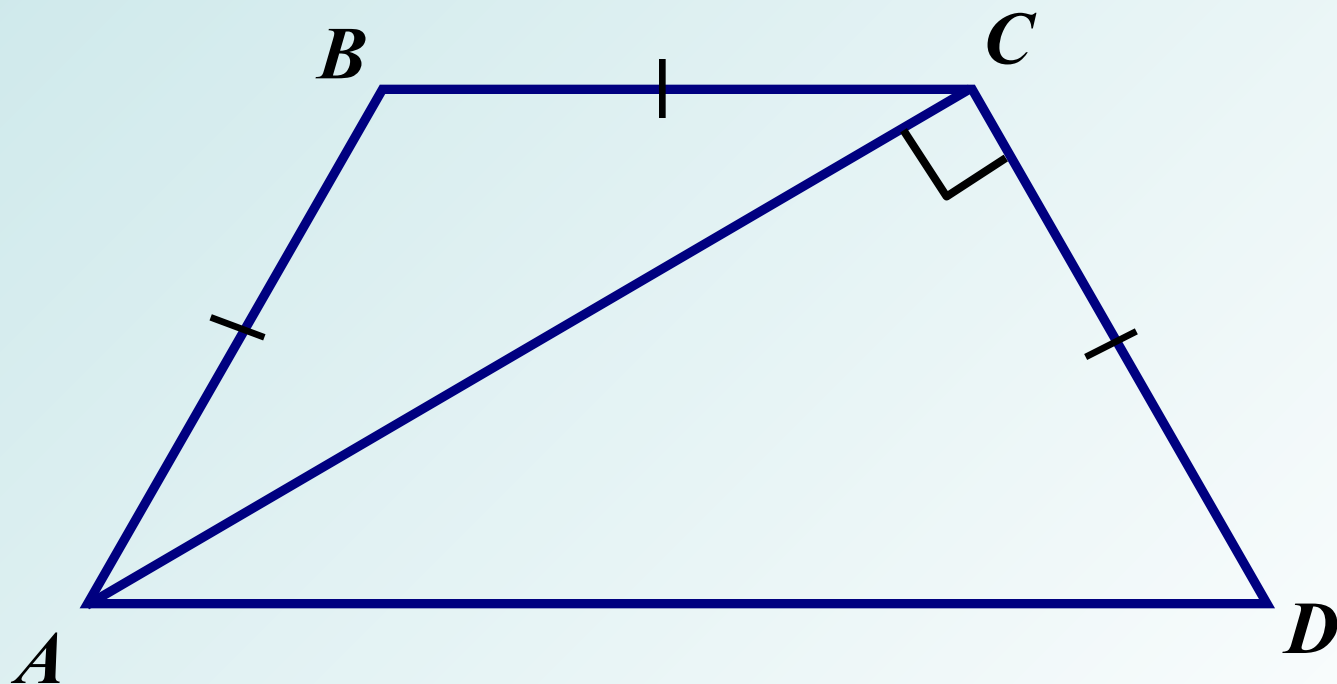


17.

Дано: $ABCD$ – òđàìáöèÿ

Найти:

óãëÿ òđàìáöèè



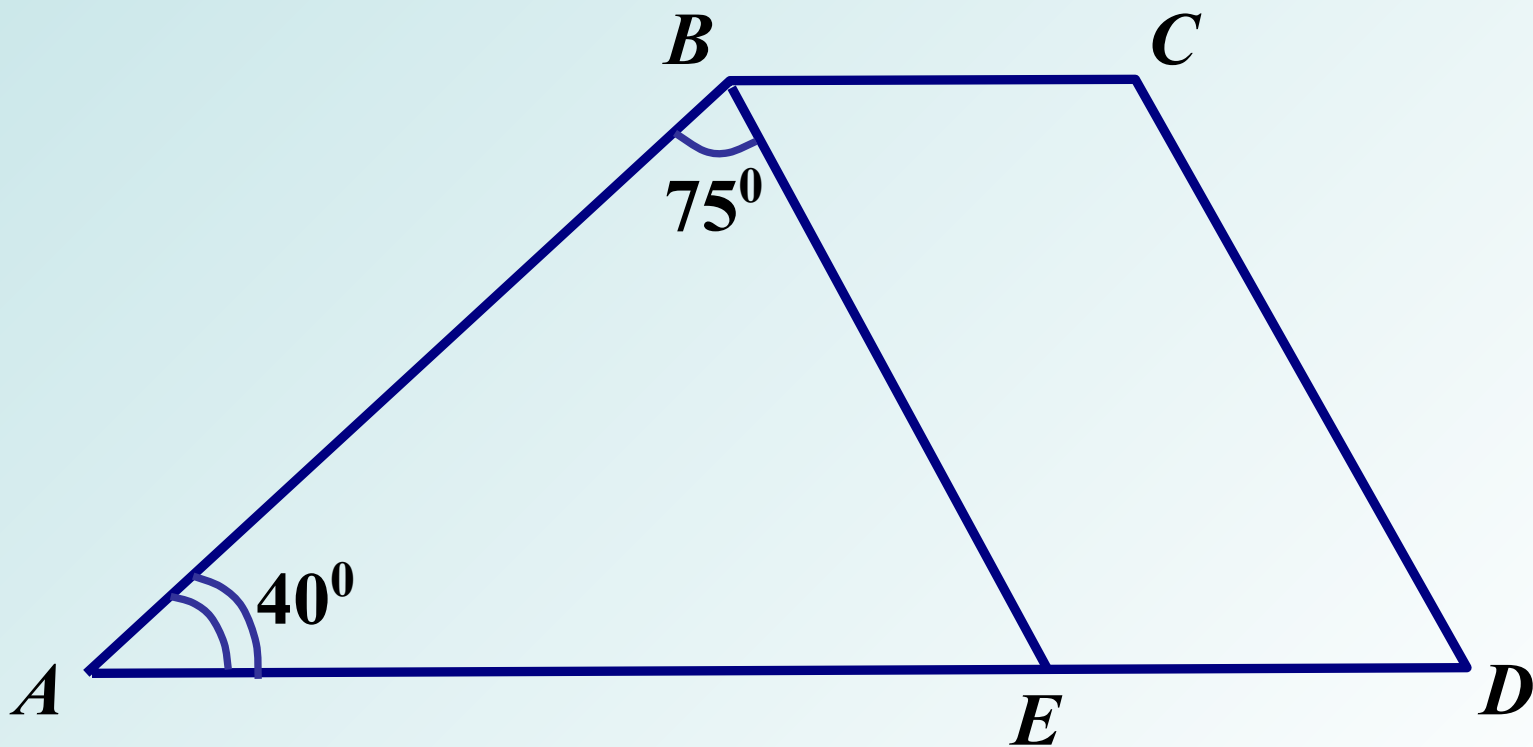
18.

Дано:

$ABCD$ – трапеция $BA \parallel CD$

Найти:

$\angle B$

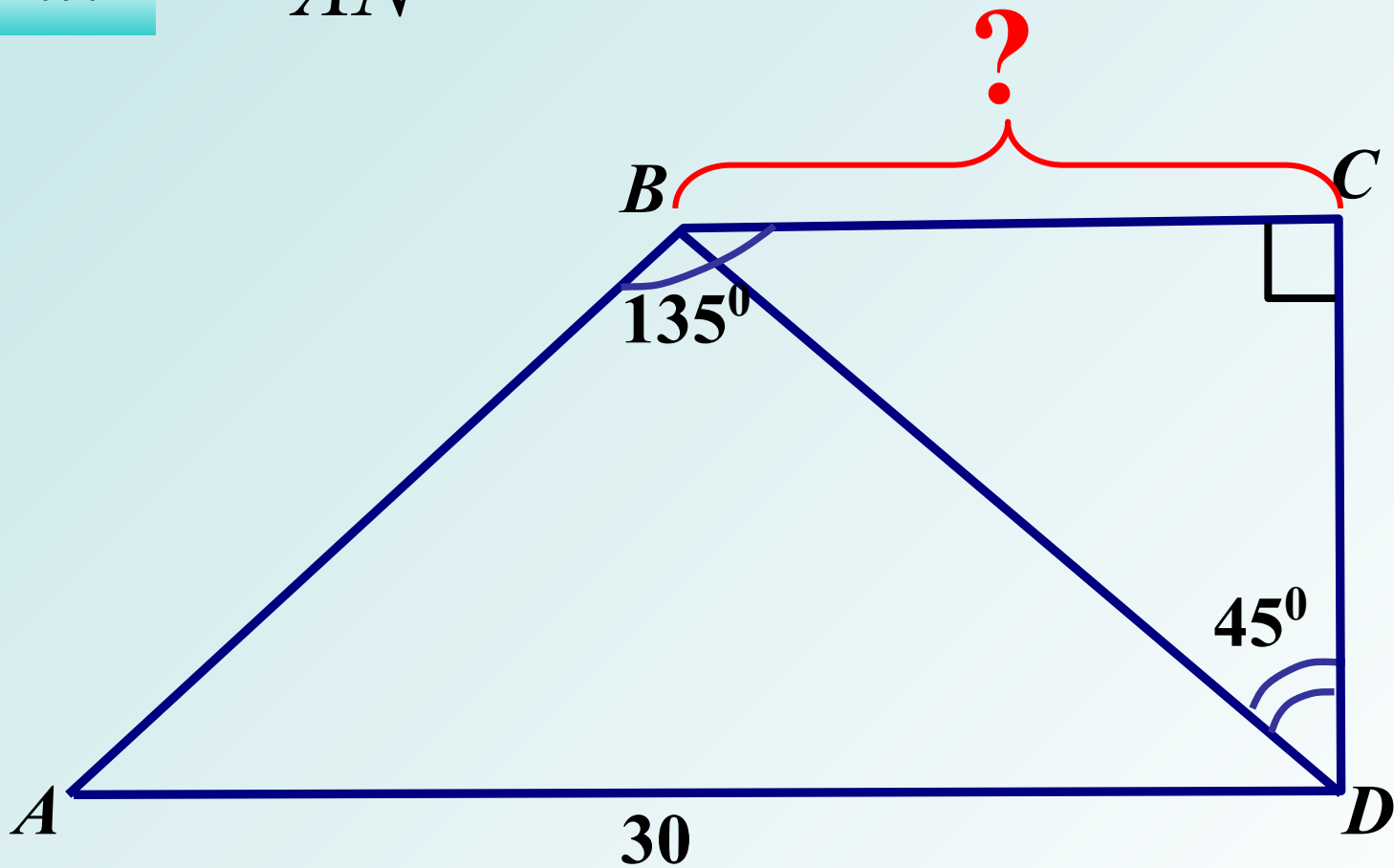


19.

Дано: $ABCD$ – òđàìäöèÿ

Найти:

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



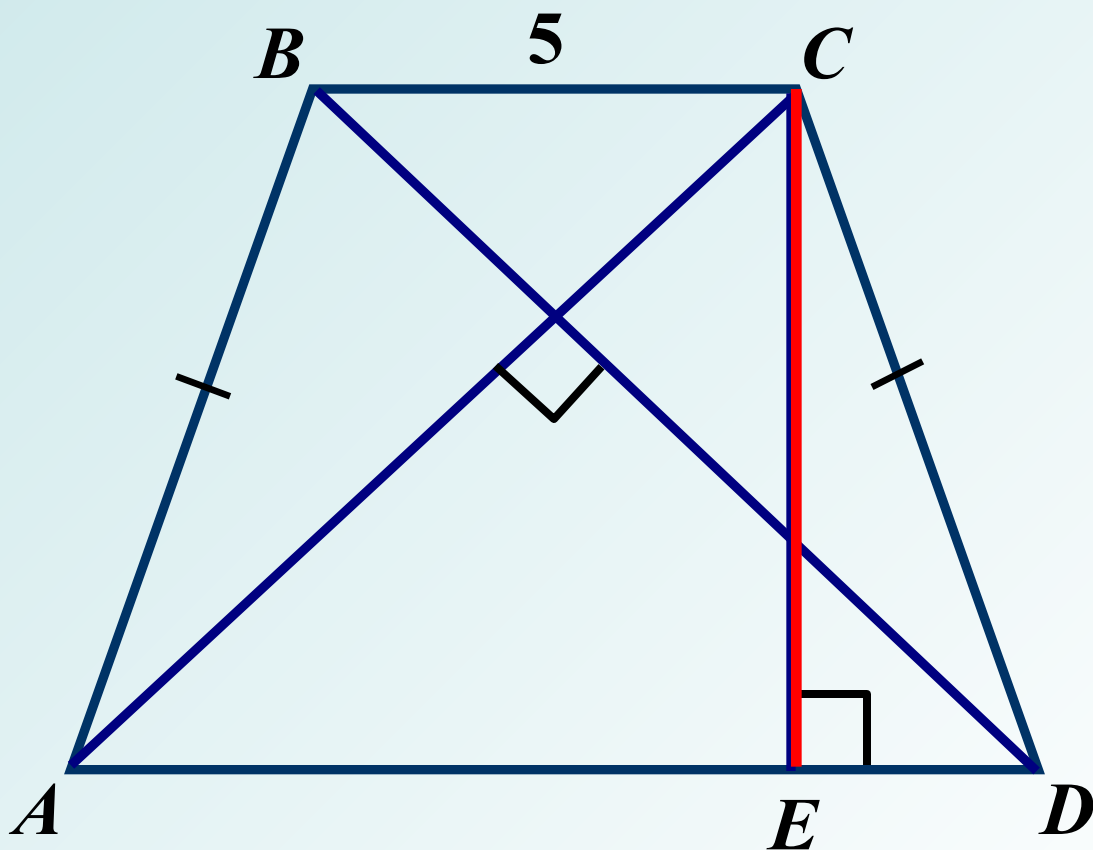
20.

Дано:

$ABCD$ – $òđàïäöèÿ$ $AD = 15$

Найти:

NE



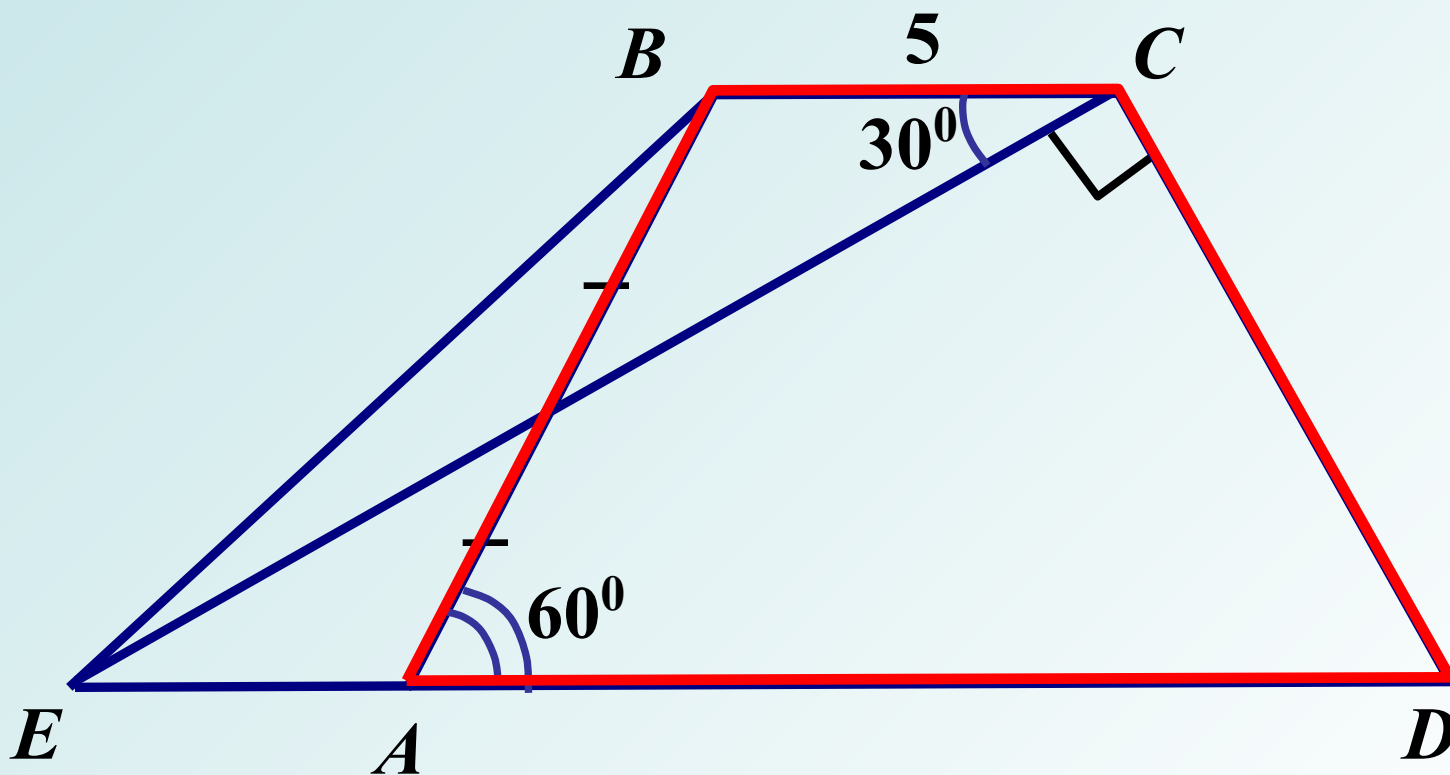
21.

Дано:

$ABCD$ – трапеция $AD = 15$

Найти:

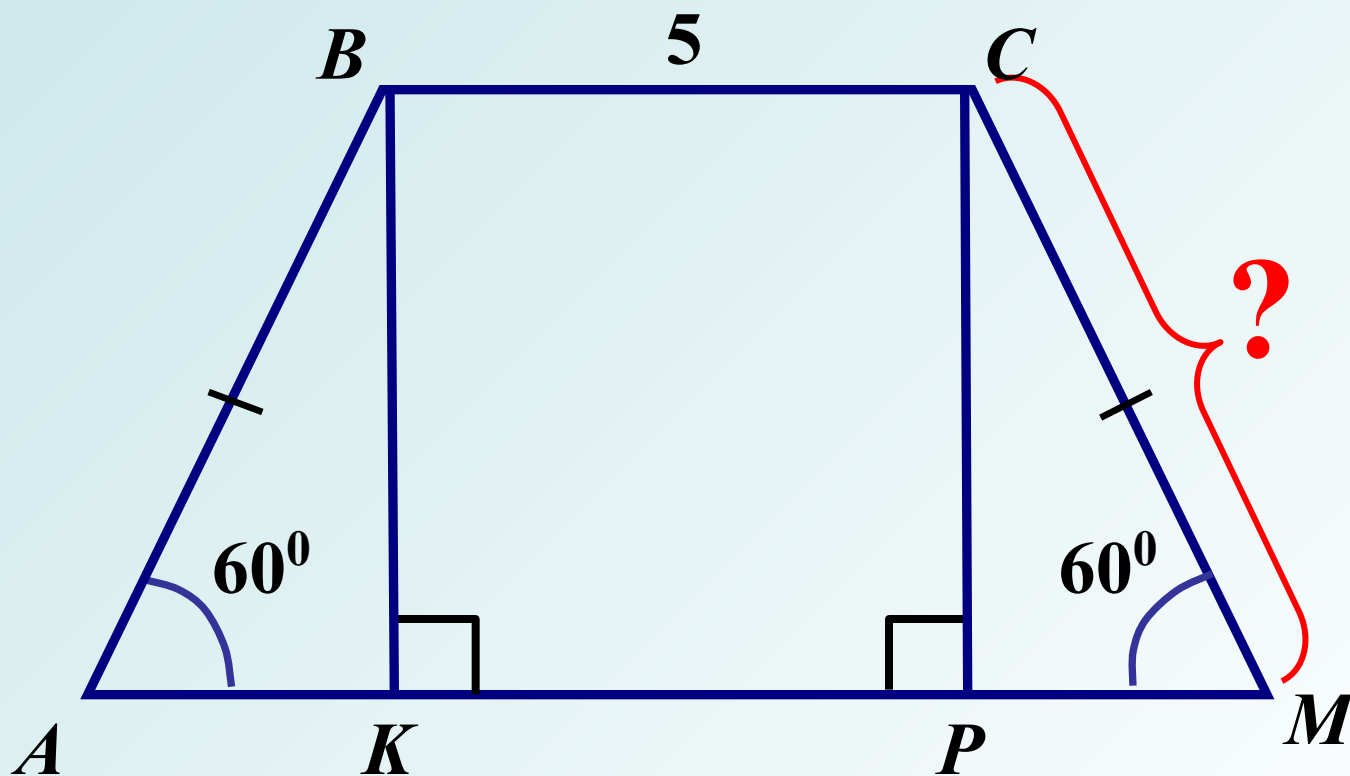
P_{ABCD}



22.

Дано: $ABCM$ – трапеция $AM = 7$

Найти: AM

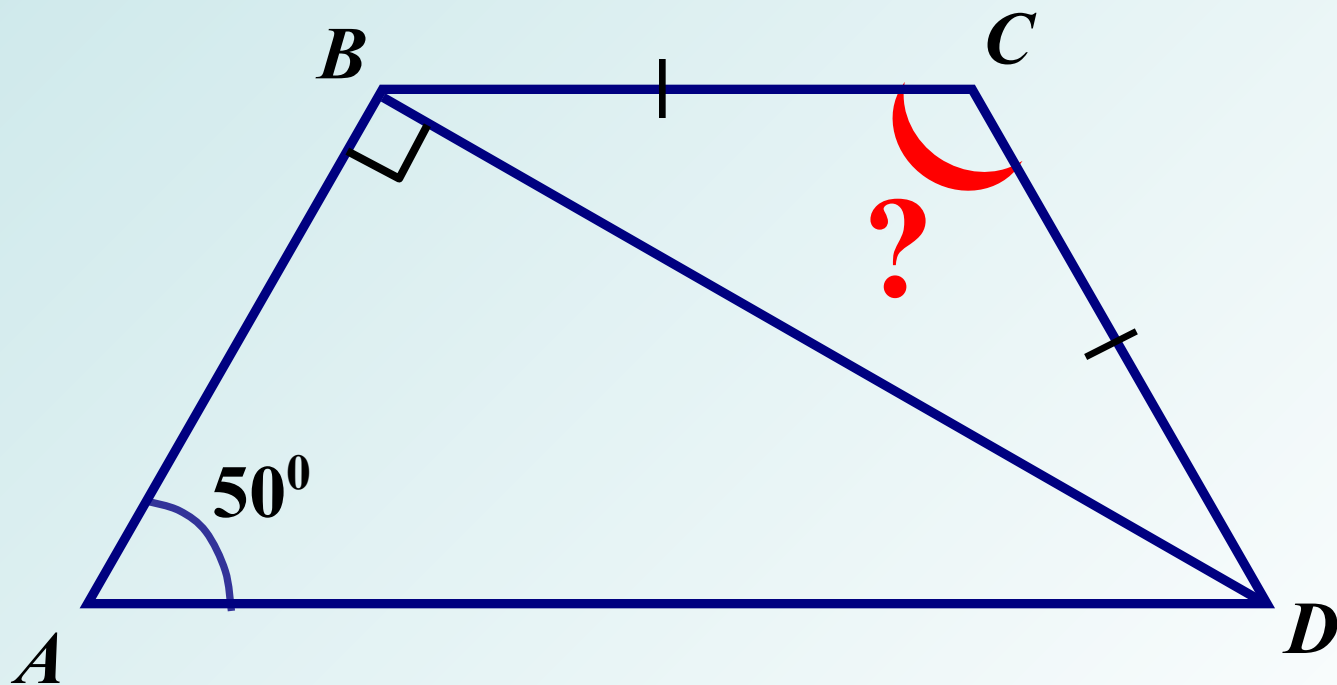


23.

Дано: $ABCD$ – òđàìäöèÿ

Найти:

$\angle \tilde{N}$



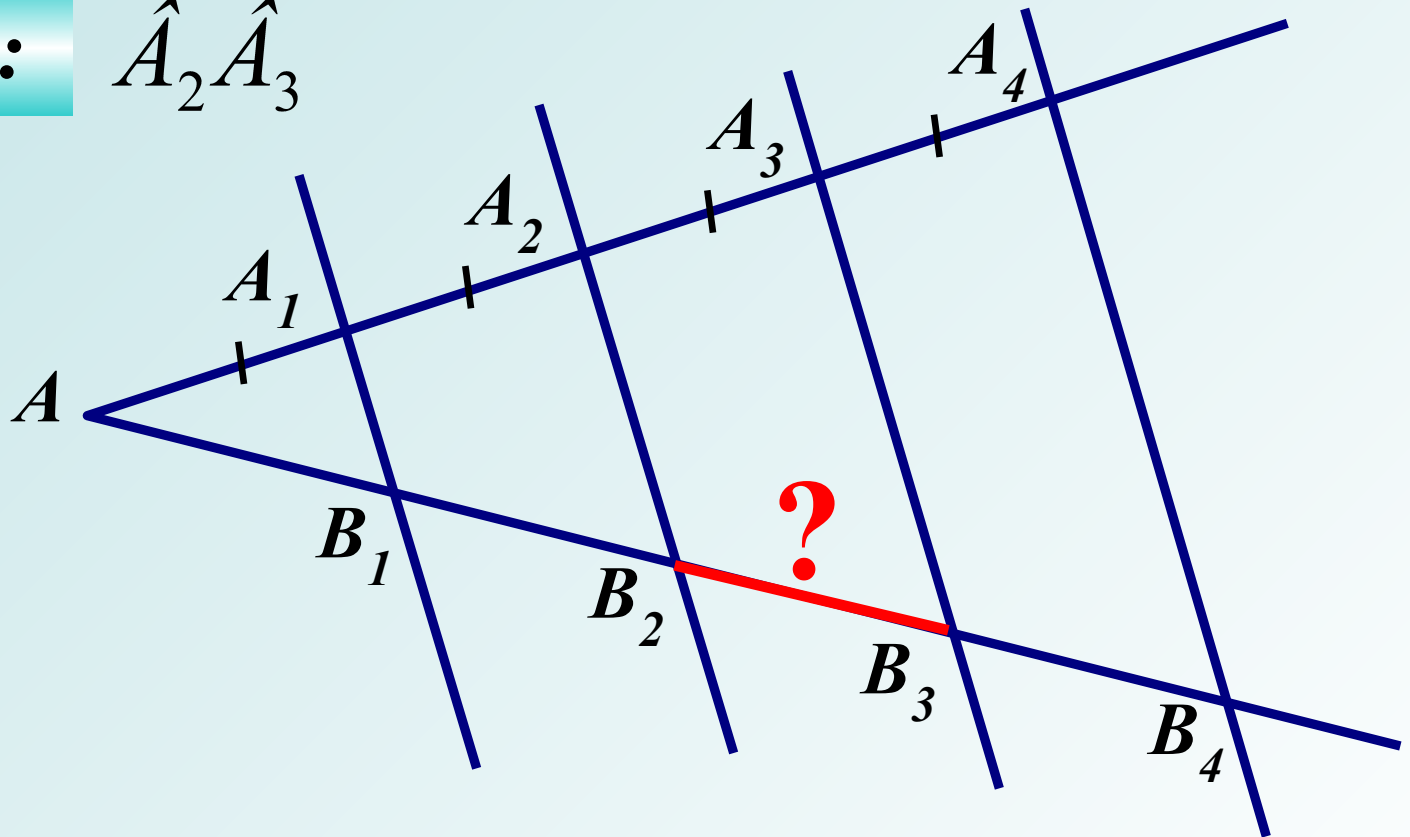
24.

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:

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

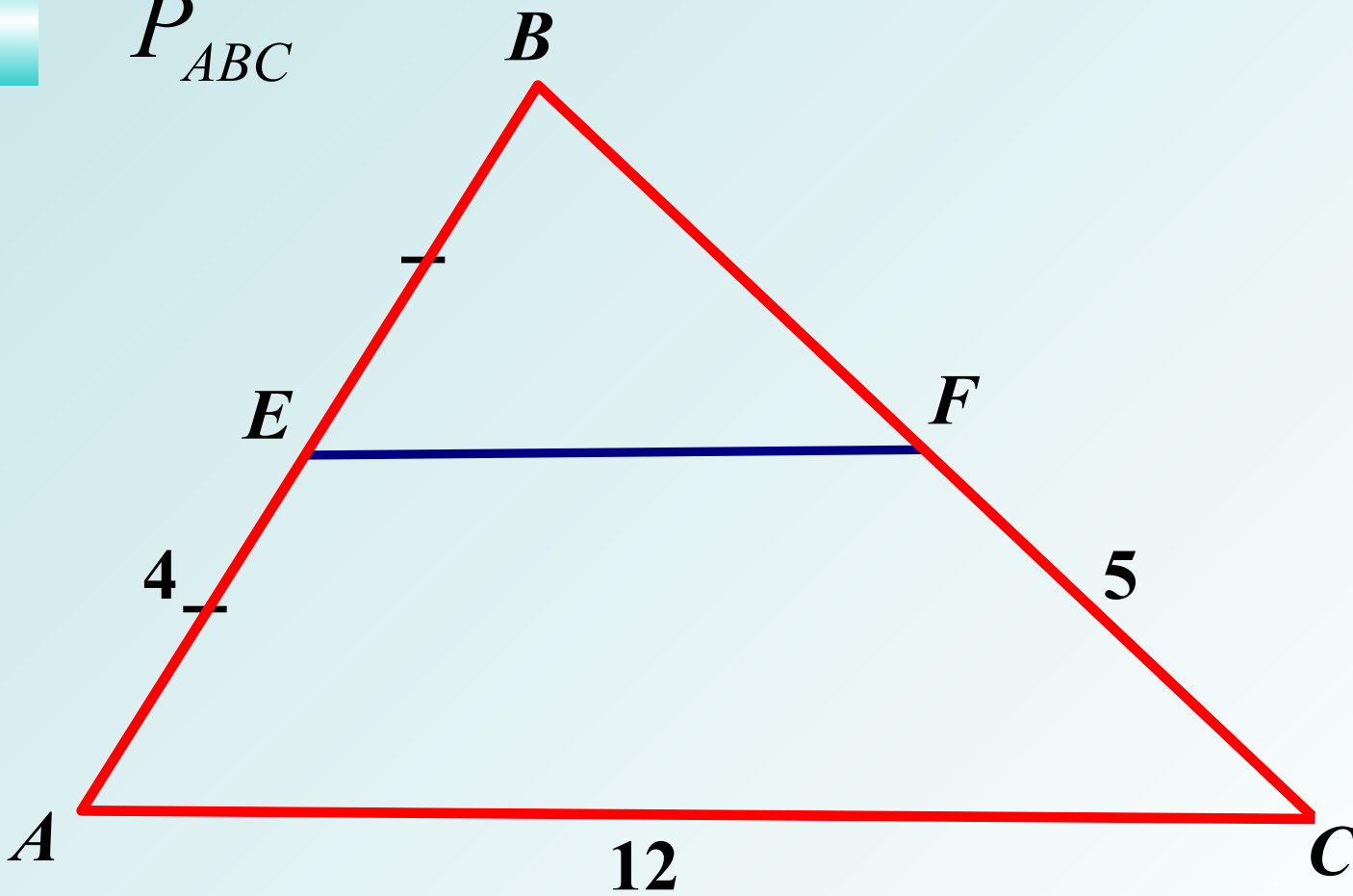


25.

Дано: $EF \parallel AC$

Найти:

P_{ABC}



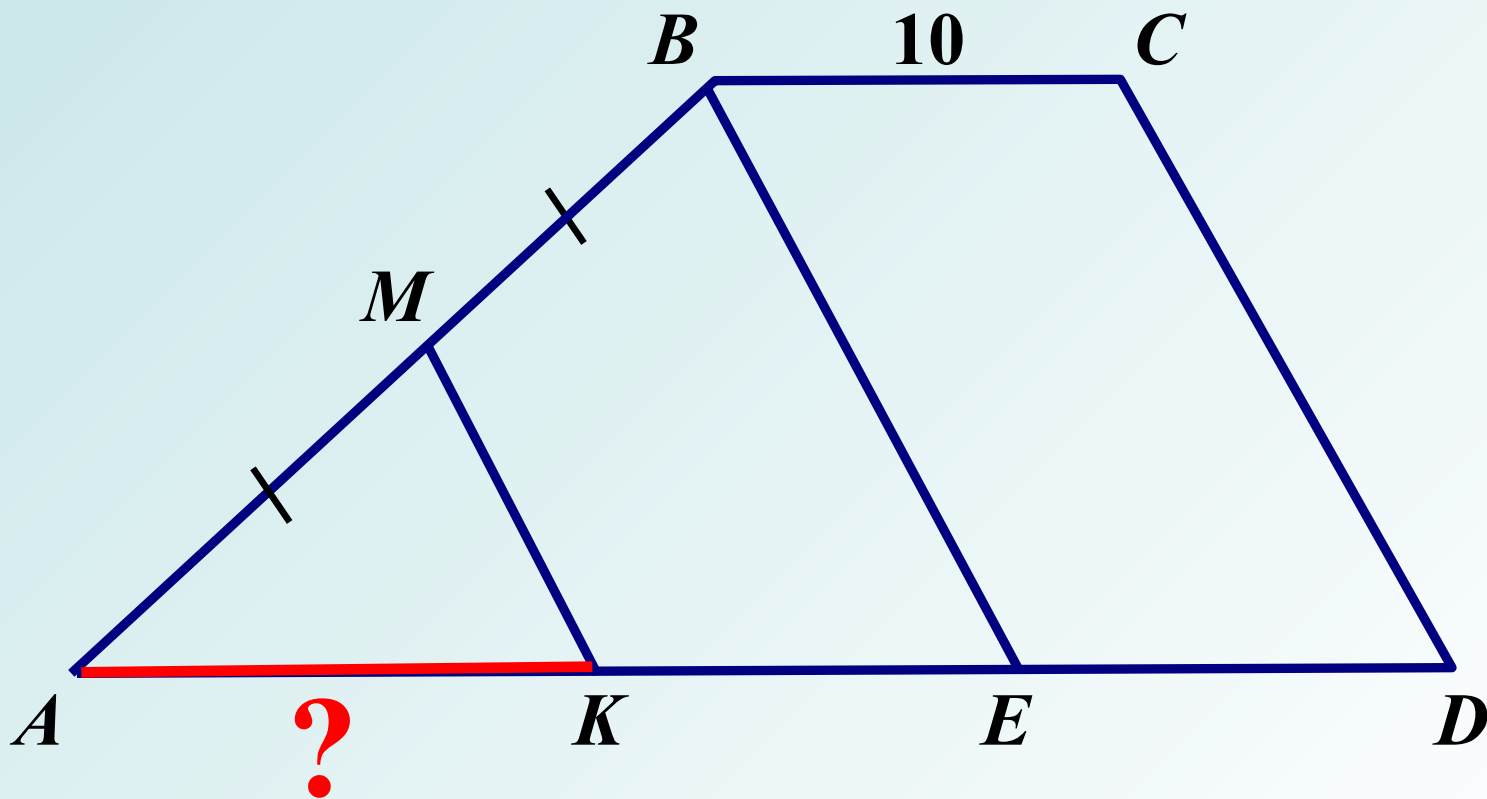
26.

Дано:

$MK \parallel BE \parallel CD$, $AD = 16$

Найти:

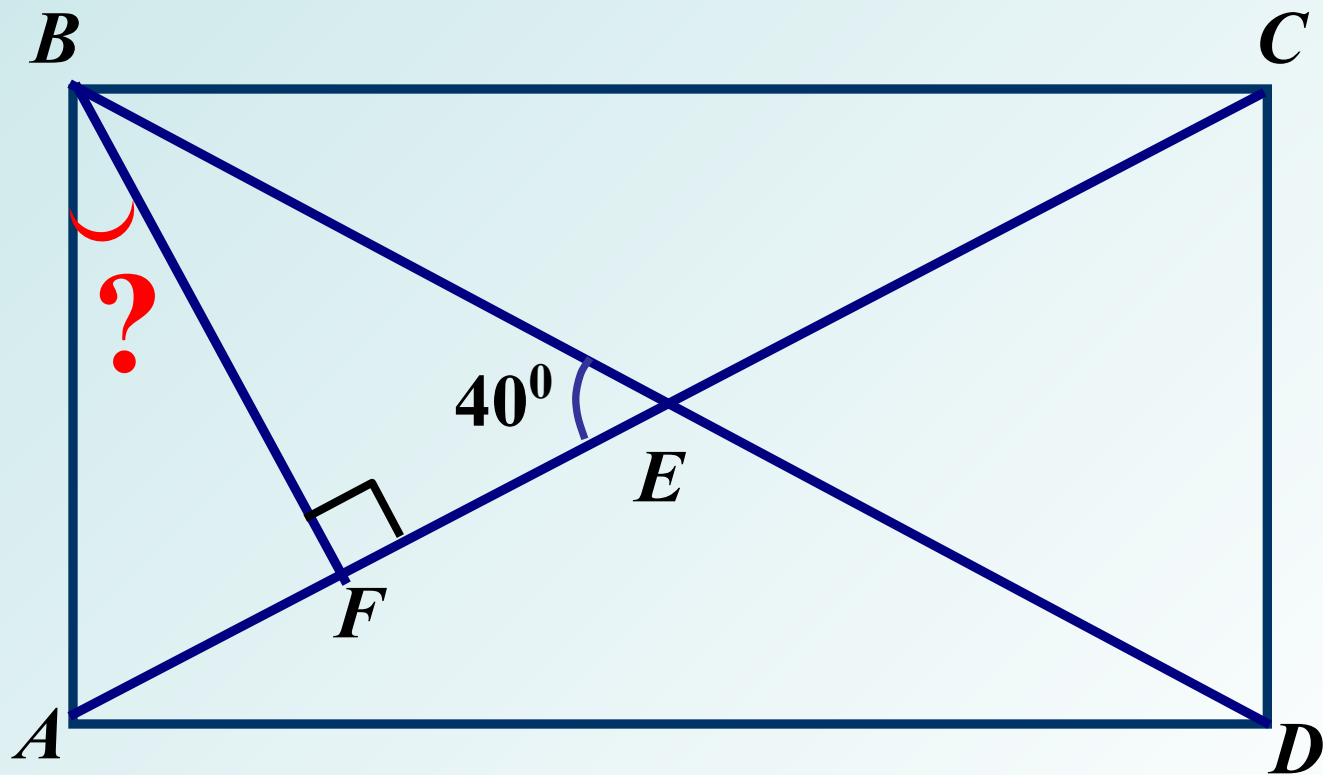
AK



27.

Дано: $ABCD$ – $AB \perp BC$ $BC \perp CD$ $CD \perp DA$ $DA \perp AB$

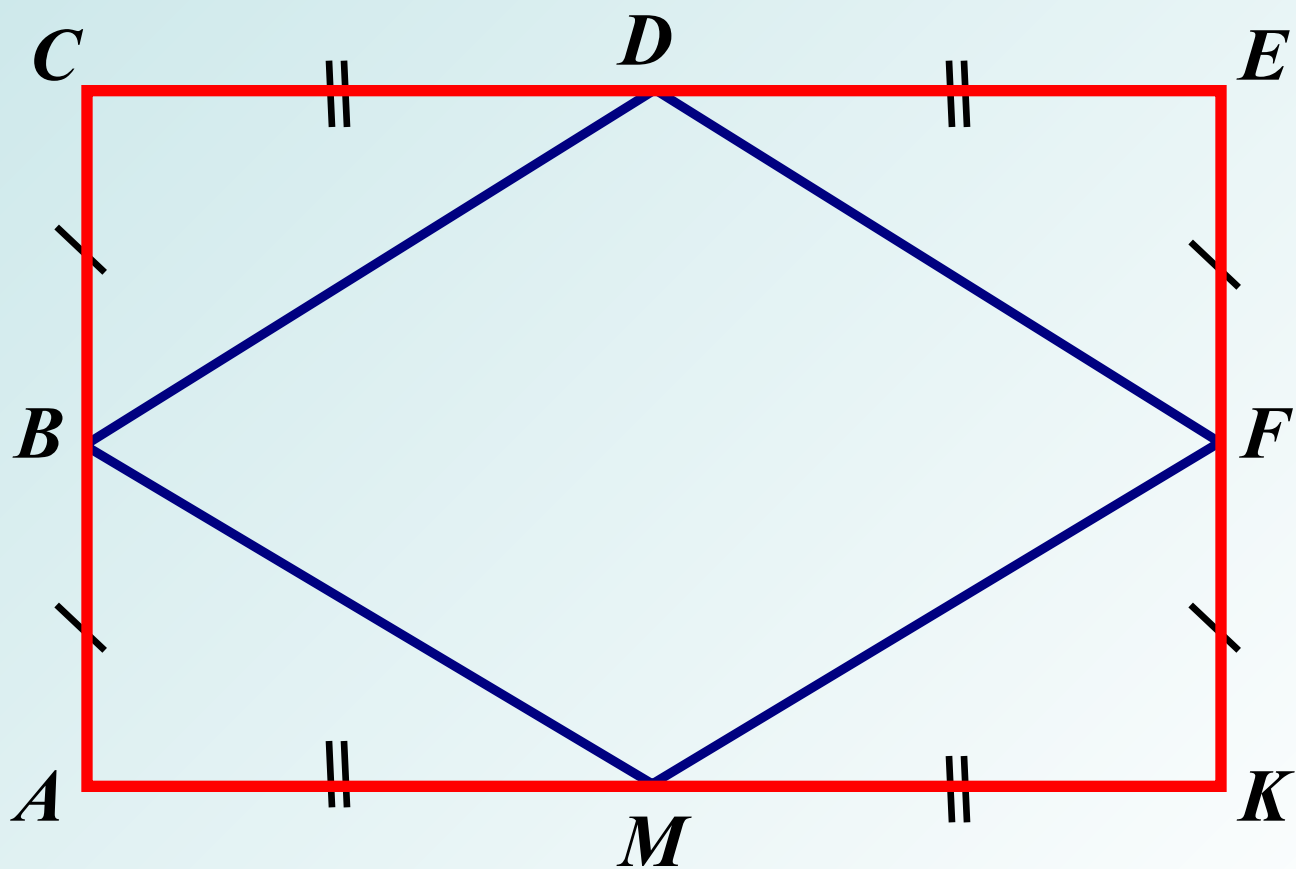
Найти: $\angle ABF$



28.

Дано: $ACEK$ – $i\grave{o}y\grave{i}\hat{i}o\grave{a}\hat{i}e\grave{u} \quad i\grave{e}\hat{e}$
 $BC = 5ci$

Найти: P_{BDFM}

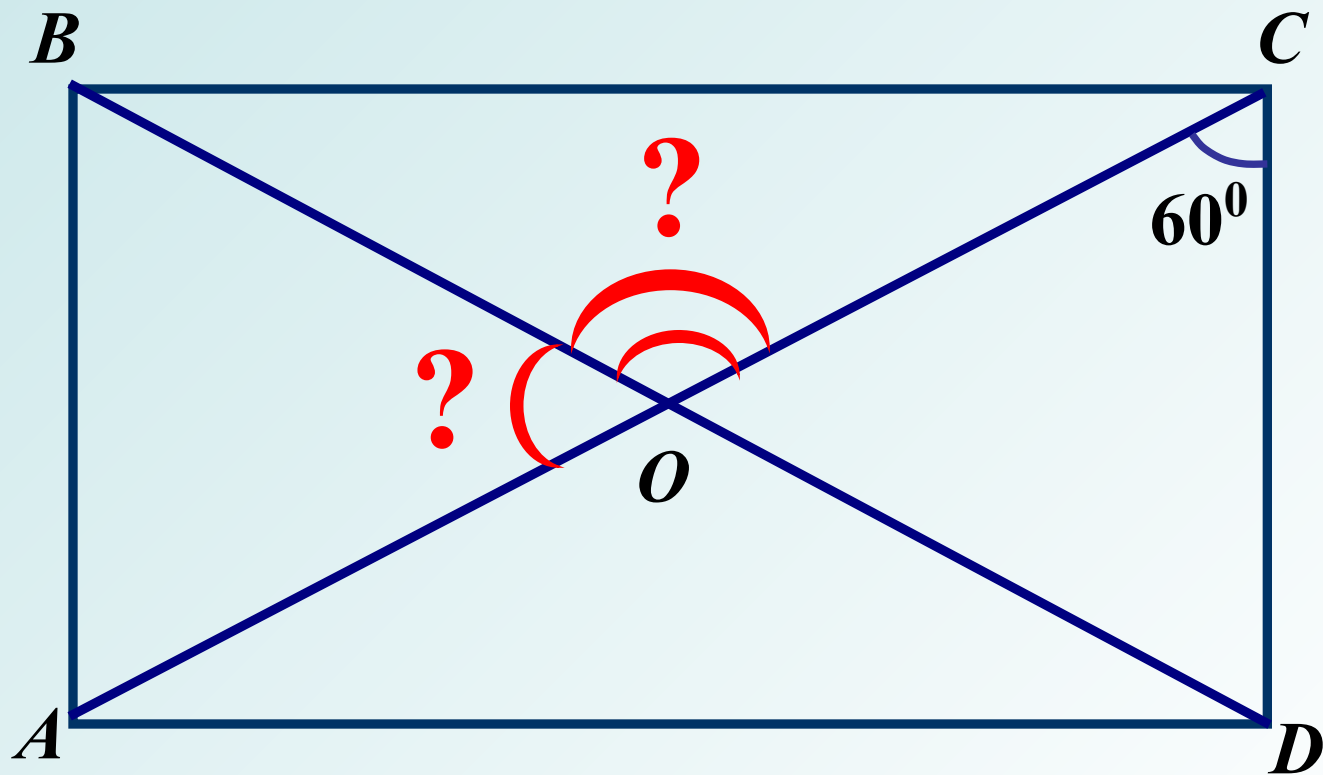


29.

Дано: $ABCD$ – ïðÿìíóäñîëïï íèè

Найти:

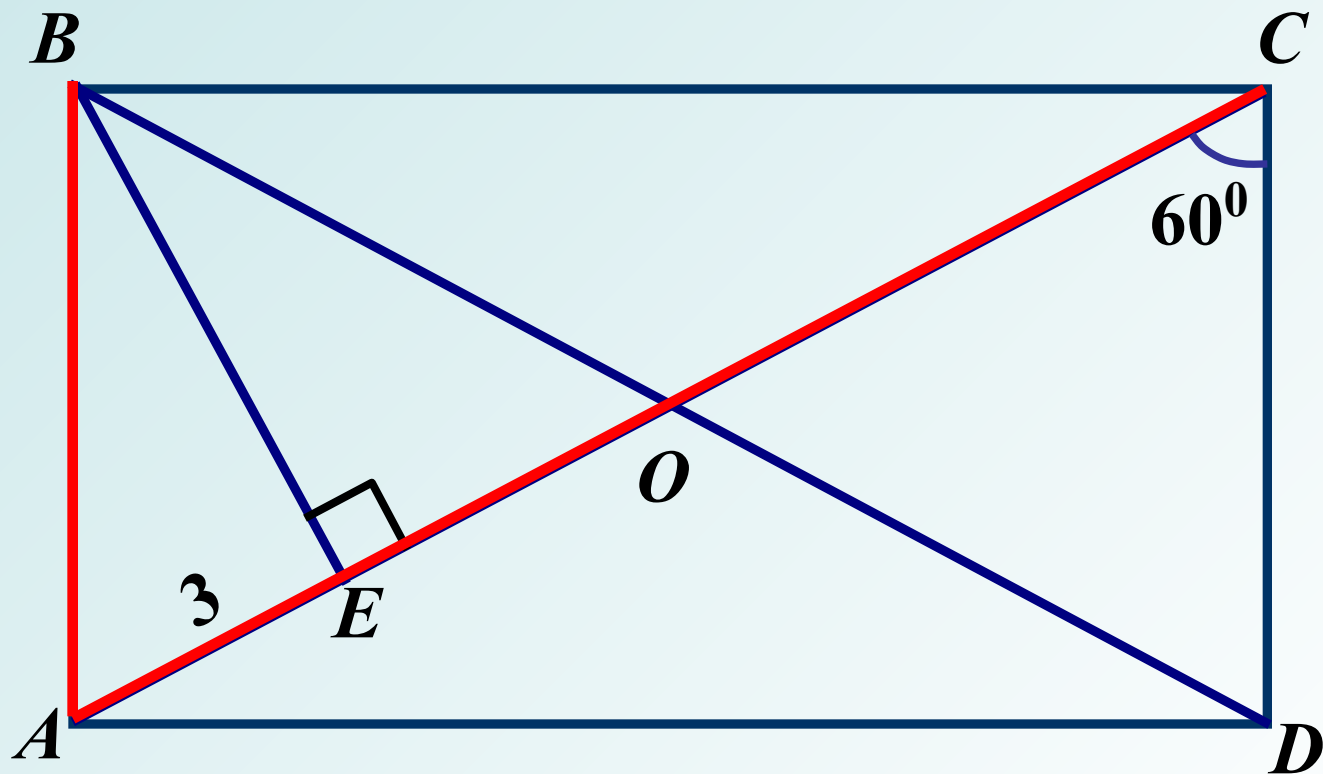
$\angle A\hat{I}B$, $\angle A\hat{I}N$



30.

Дано: $ABCD$ – ïðÿìîáñîëü íèè

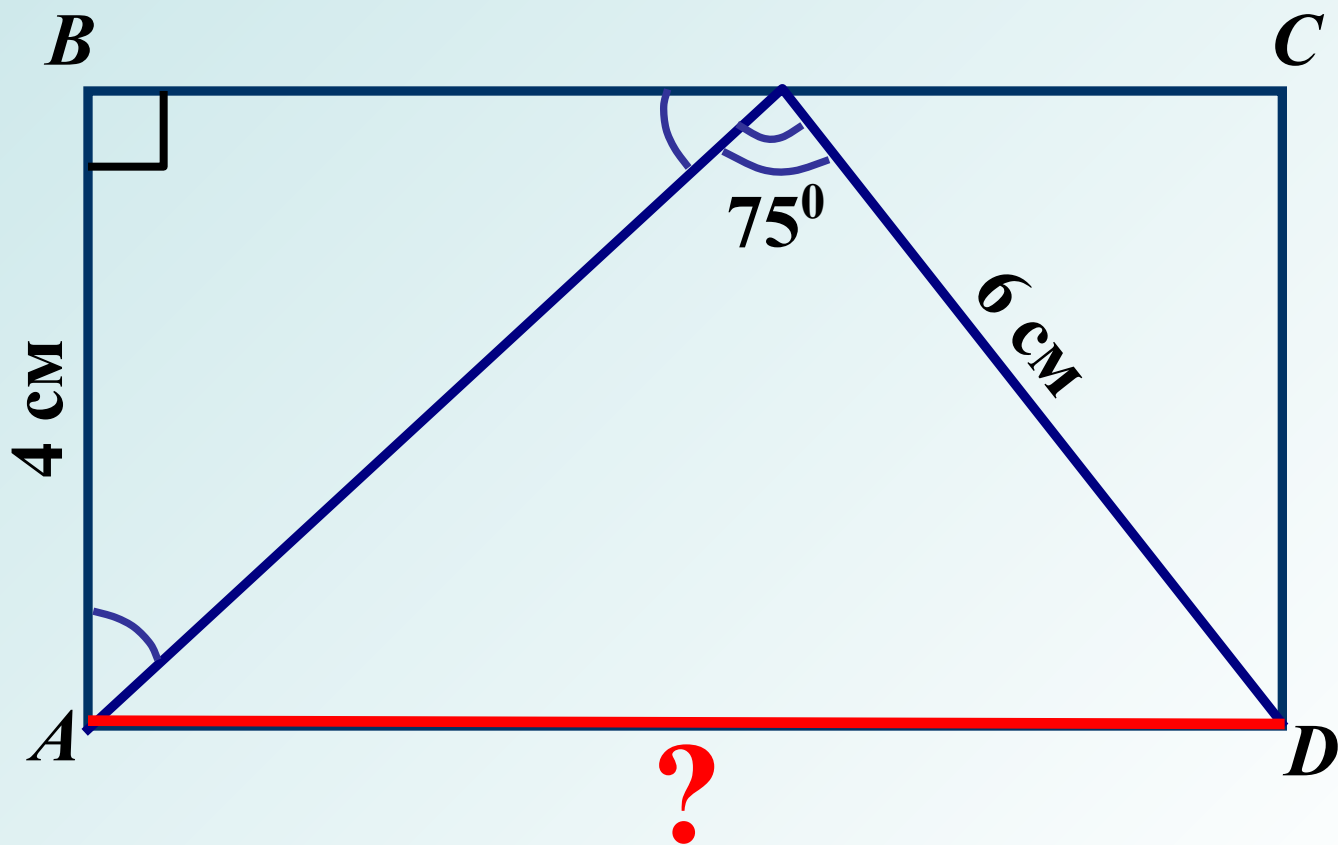
Найти: AN , \hat{A}



31.

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

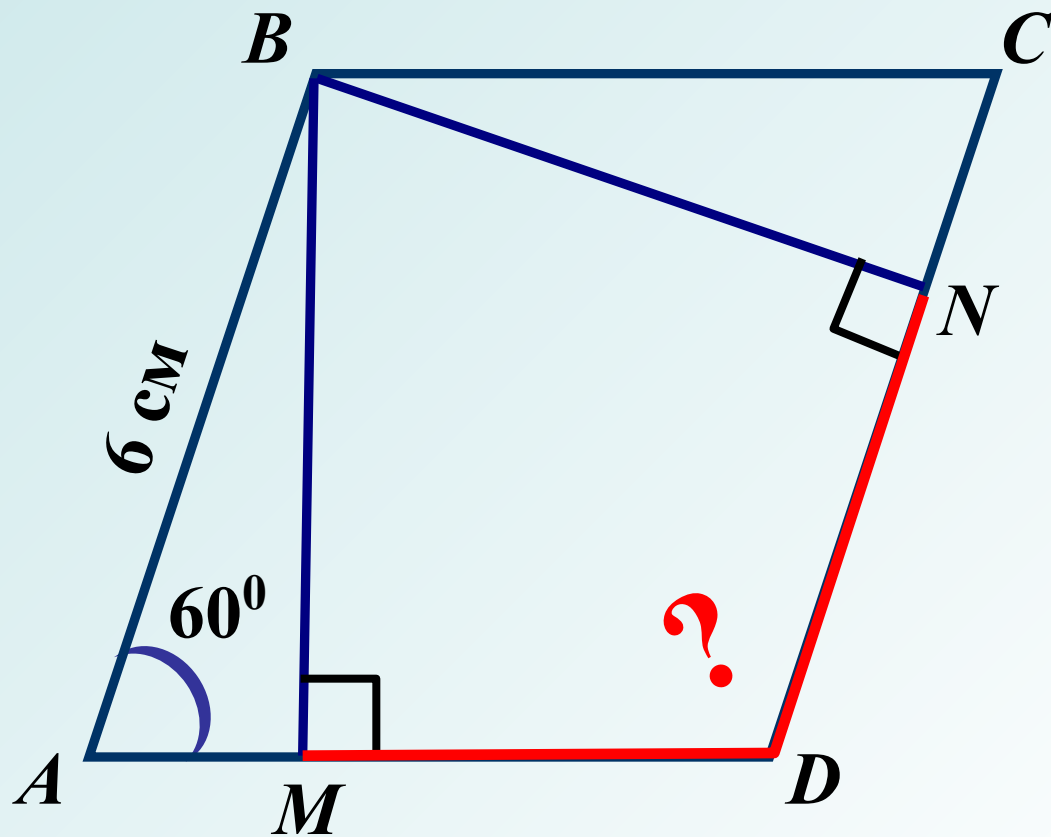
Найти: AD



32.

Дано: $ABCD$ – діля

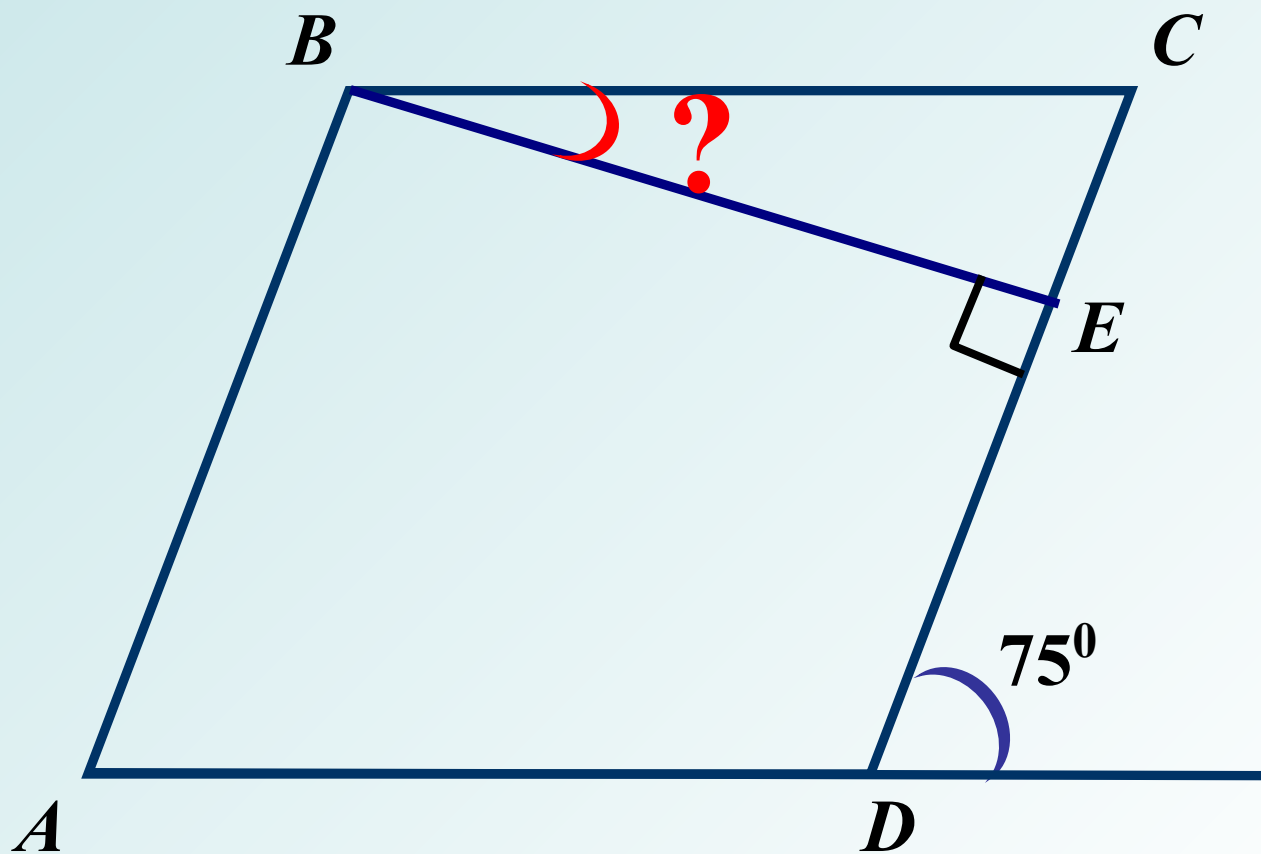
Найти: $MD + DN$



33.

Дано: $ABCD$ – діїа

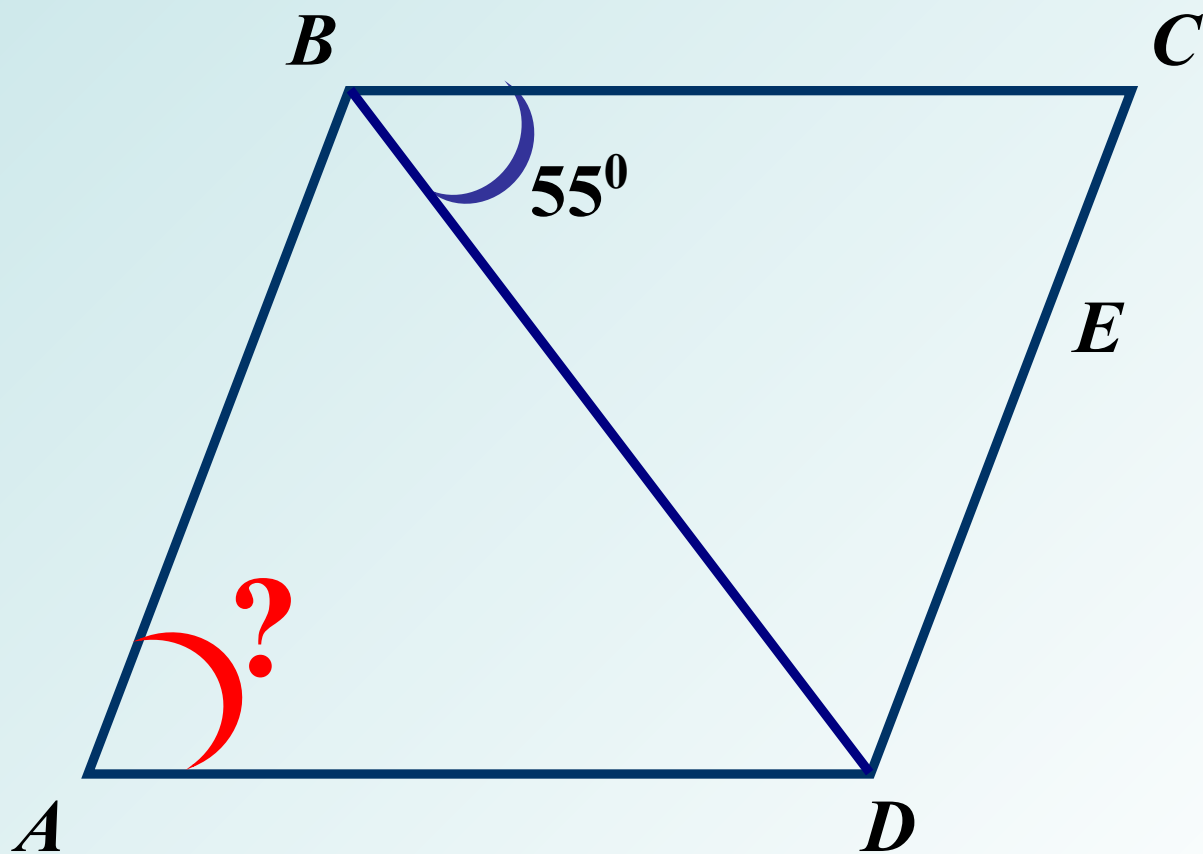
Найти: $\angle \tilde{N}BA$



34.

Дано: $ABCD$ – діїа

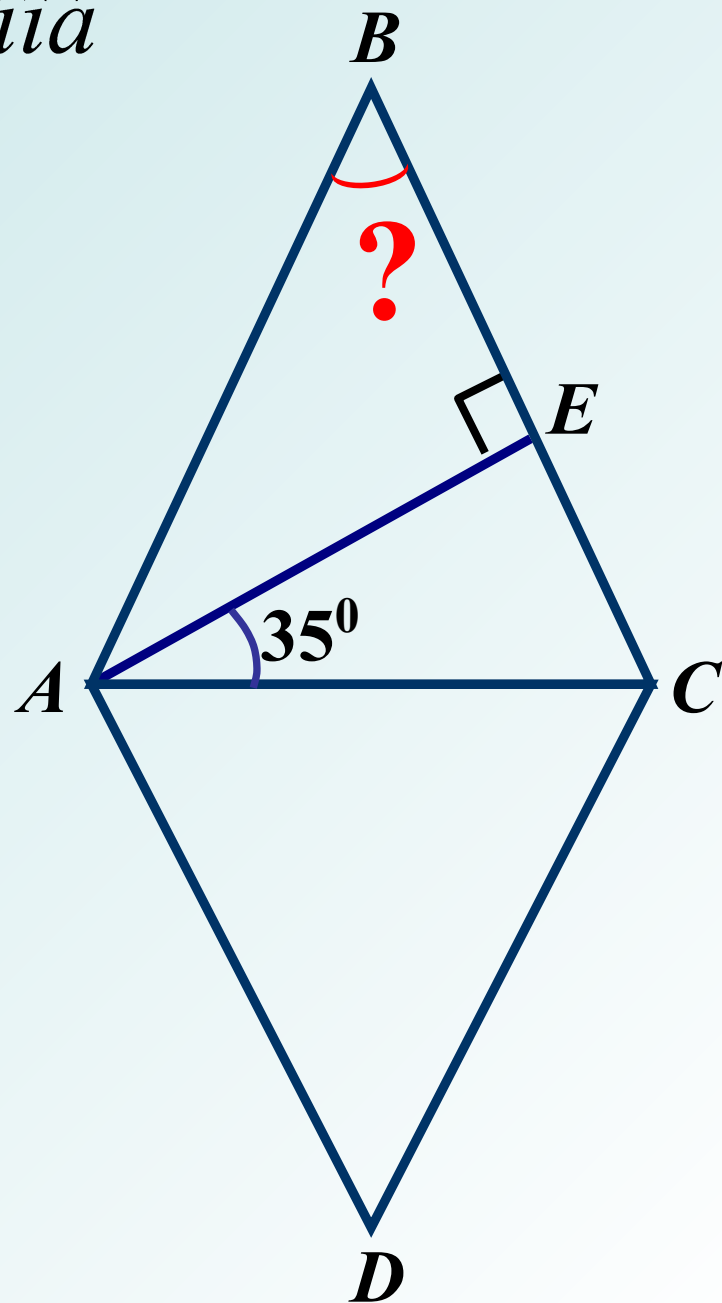
Найти: $\angle B\hat{A}D$



35.

Дано: $ABCD$ – діа́

Найти: $\angle ABC$



36.

Дано:

$ABCD$ – квадрат

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

Найти:

P_{ABCD}

