

Решение задач

на готовых чертежах.

*Подобные
треугольники.*

Геометрия.

8 класс.

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МОУ СОШ №256 г.Фокино*



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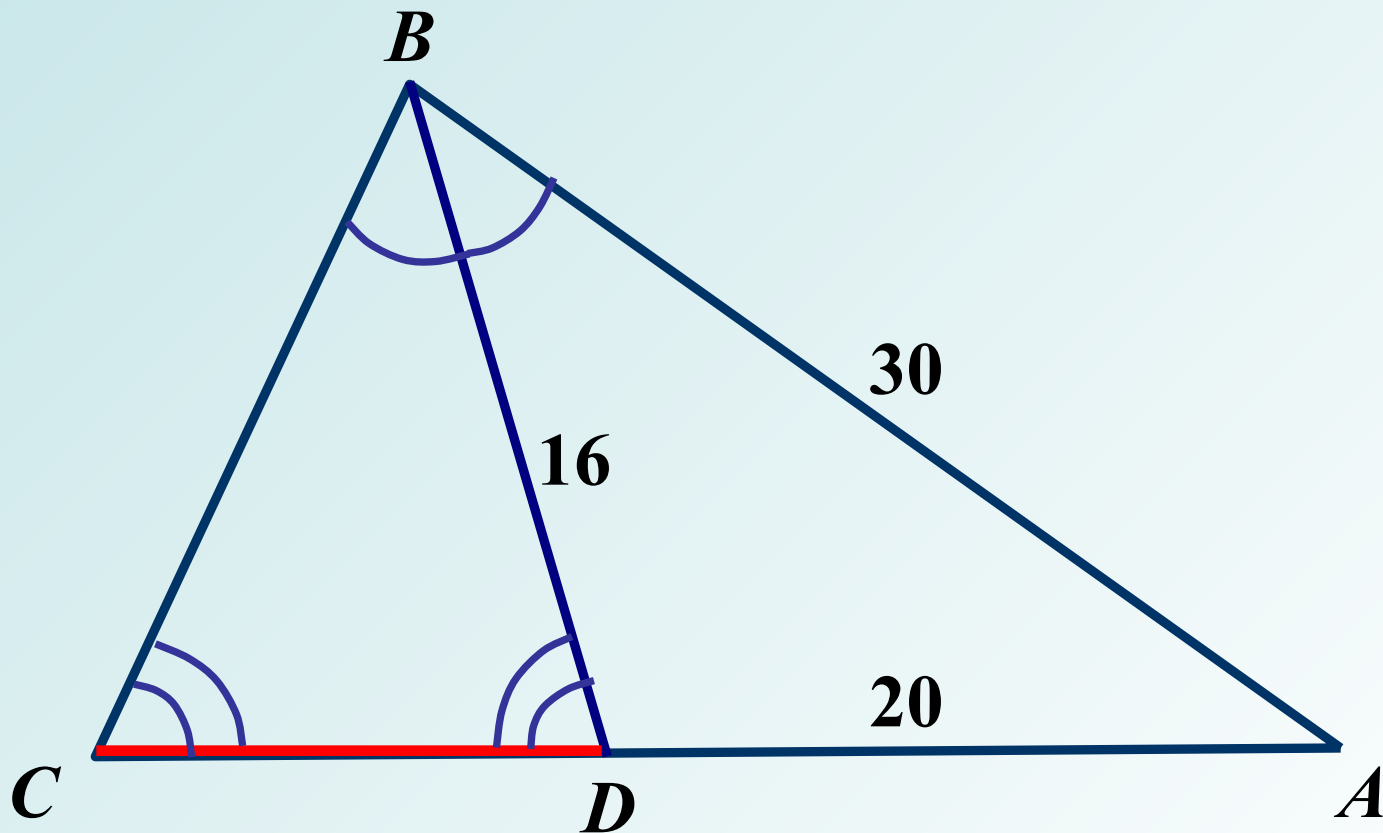
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1.

Дано: $\triangle ABC$

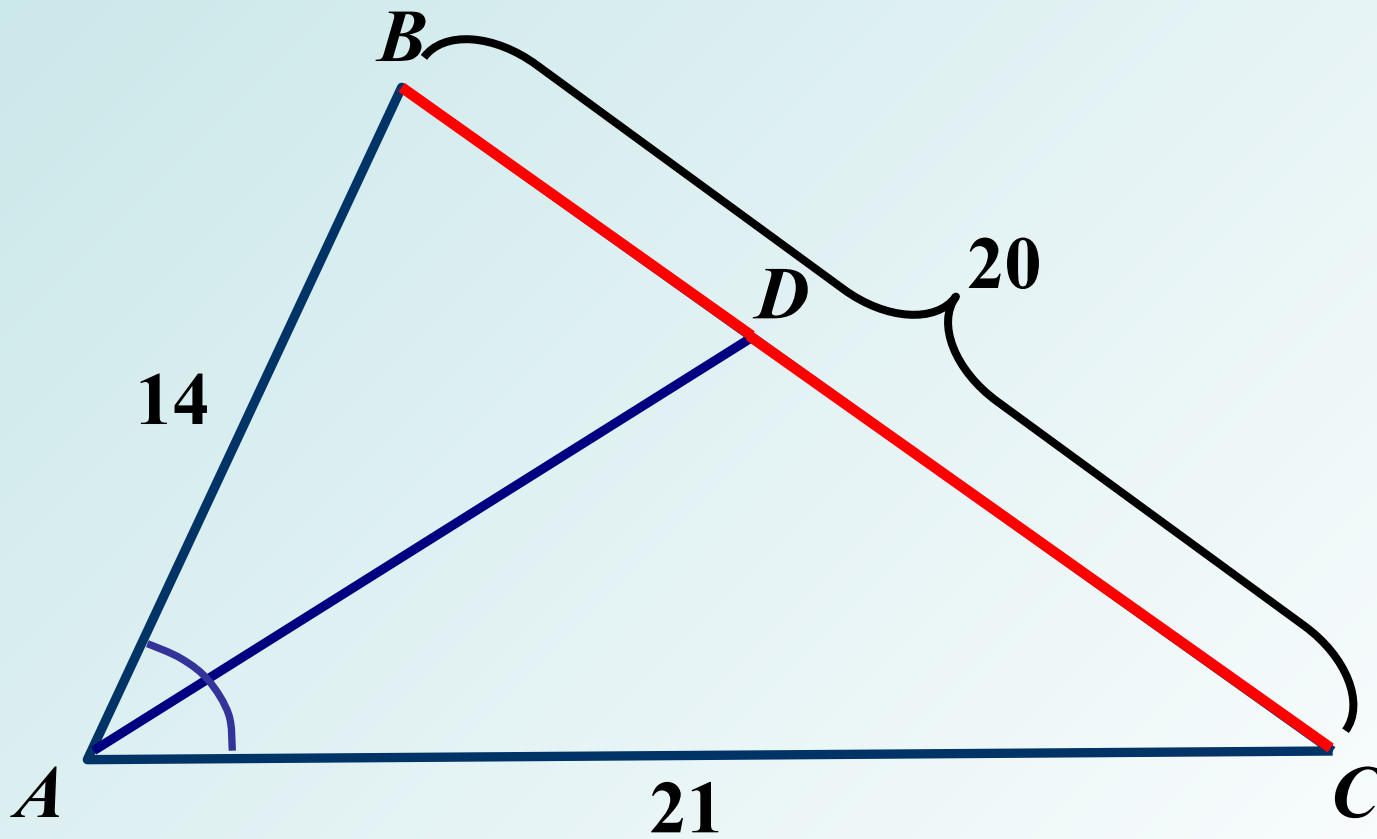
Найти: DC



2.

Дано: $\triangle ABC$

Найти: $\hat{A}D$, $D\tilde{N}$



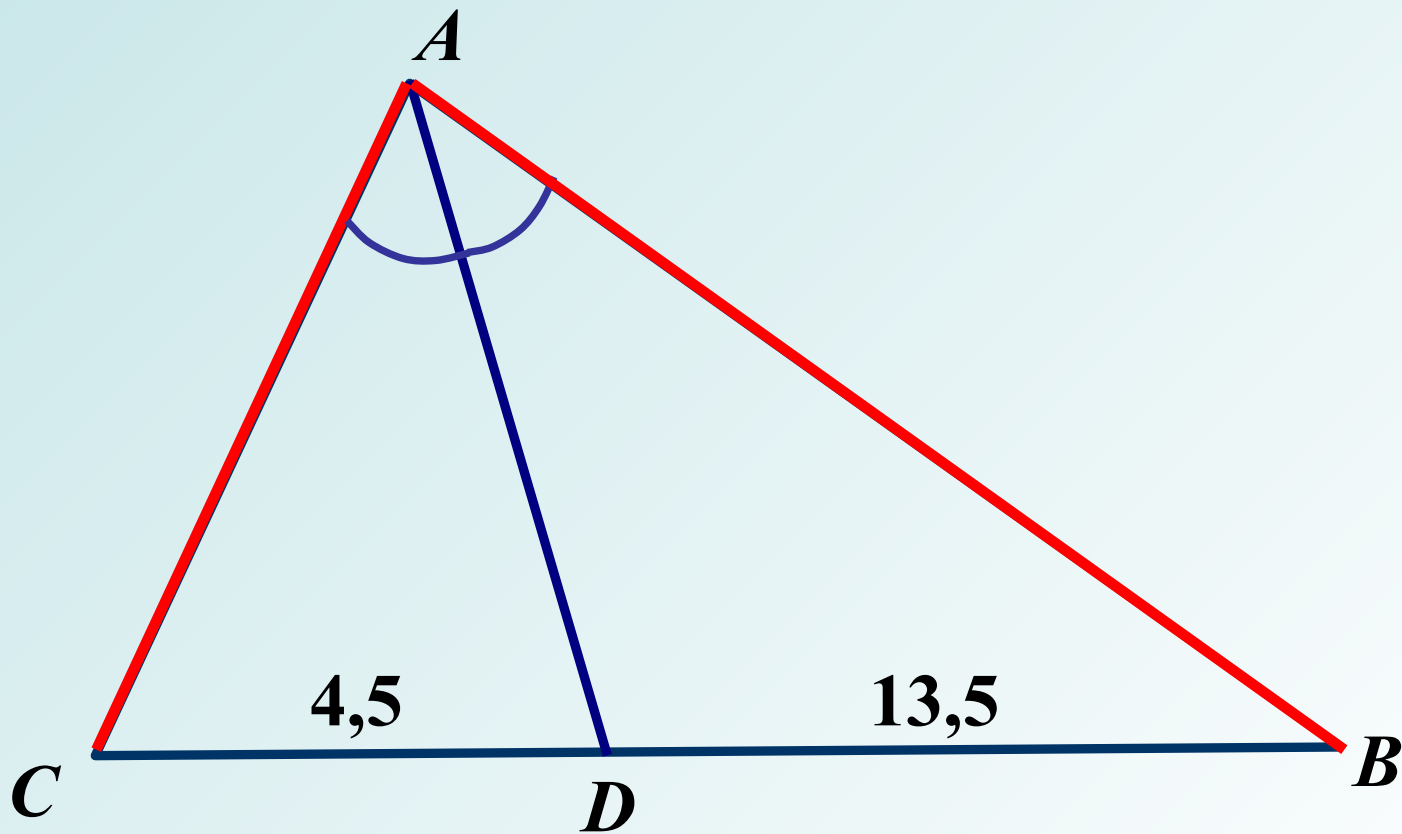
3.

Дано:

$$\triangle ABC, D_{\hat{A}\hat{A}\hat{N}} = 42$$

Найти:

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

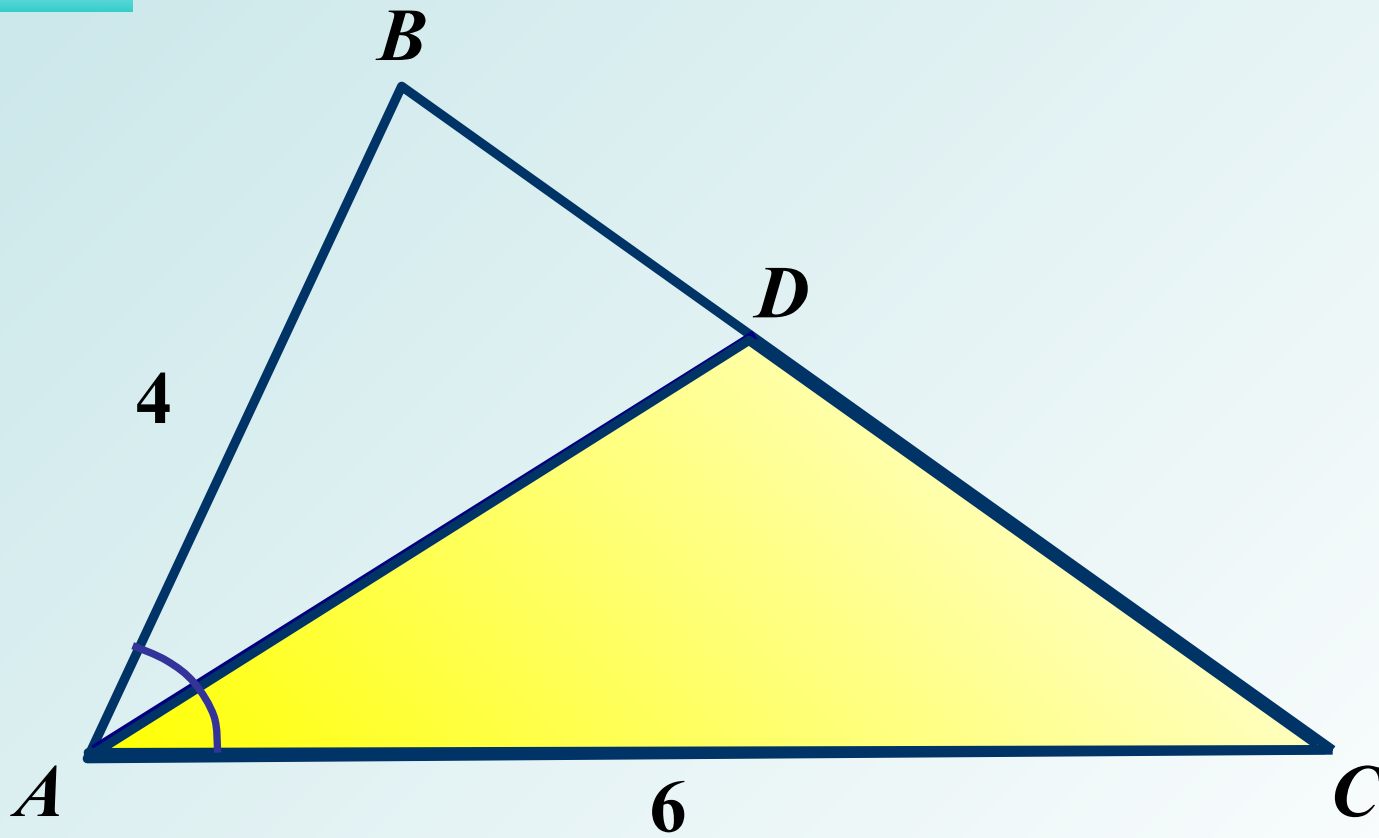


4.

Дано: $\triangle ABC$, $S_{\triangle AD} = 12 \text{ см}^2$

Найти:

$S_{\triangle BDC}$

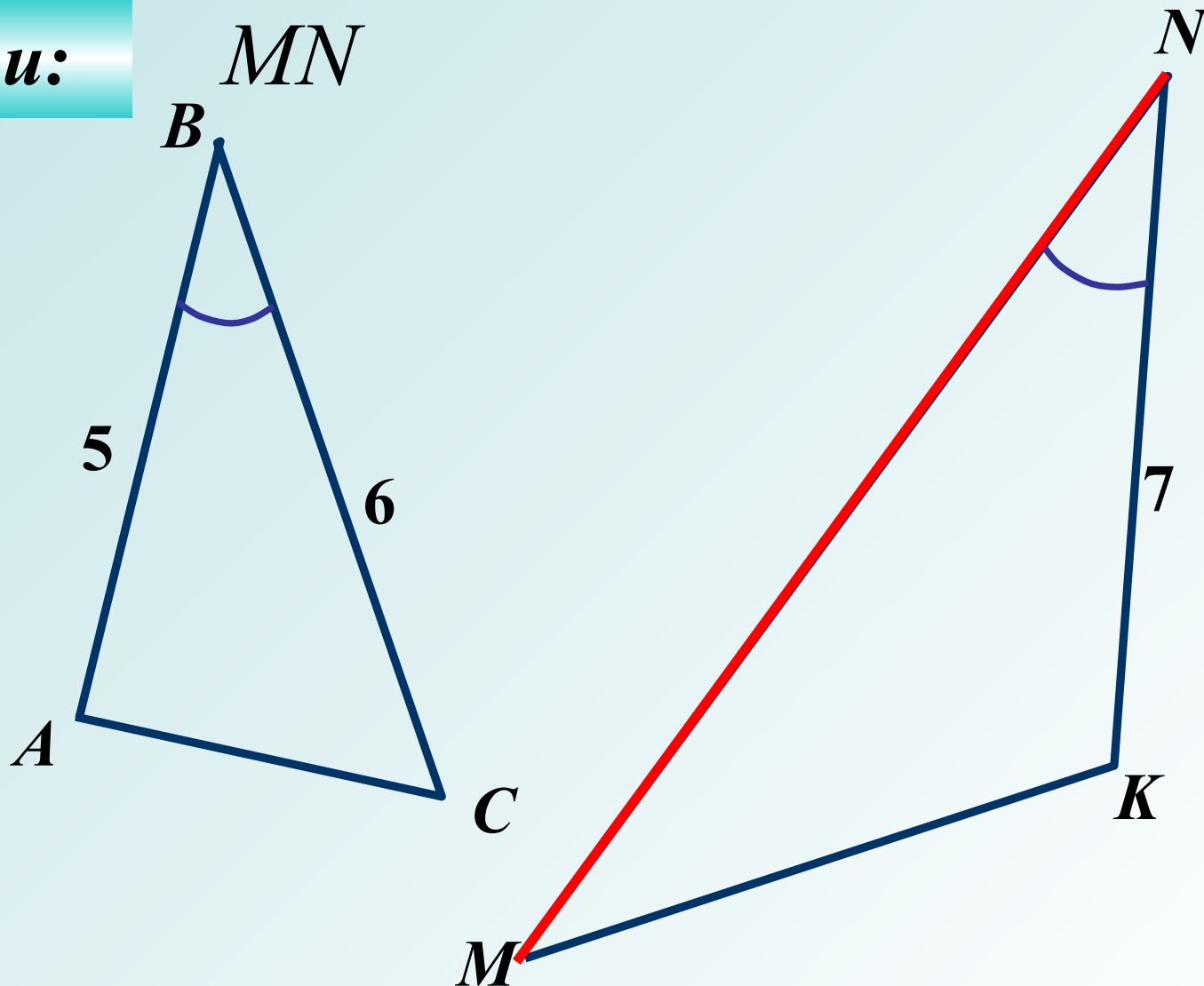


5.

Дано:

$$S_{ABC} : S_{MNK} = 3 : 7$$

Найти:



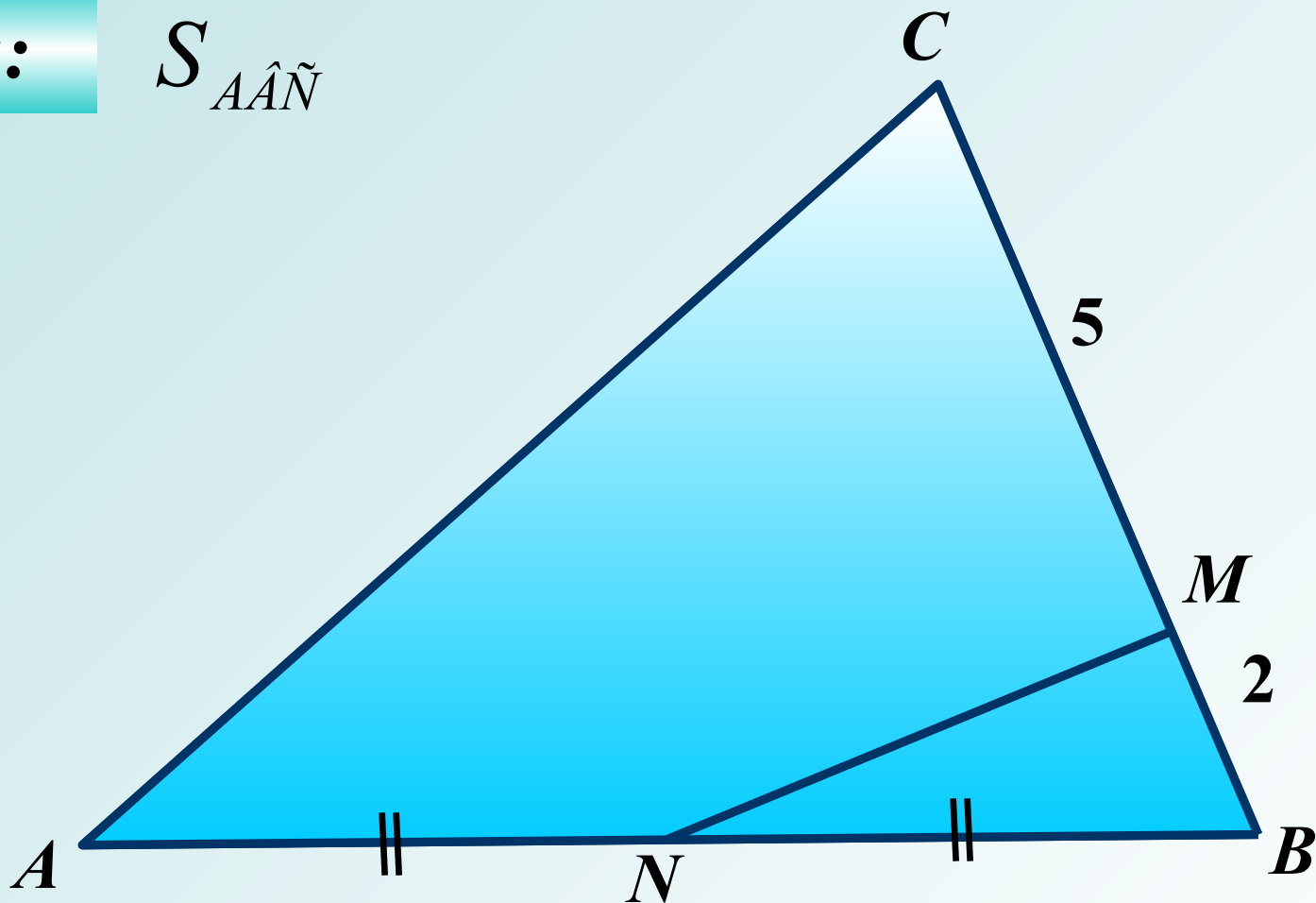
6.

Дано:

$$\Delta ABC, S_{BNM} = 4\tilde{n}i^2$$

Найти:

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



7.

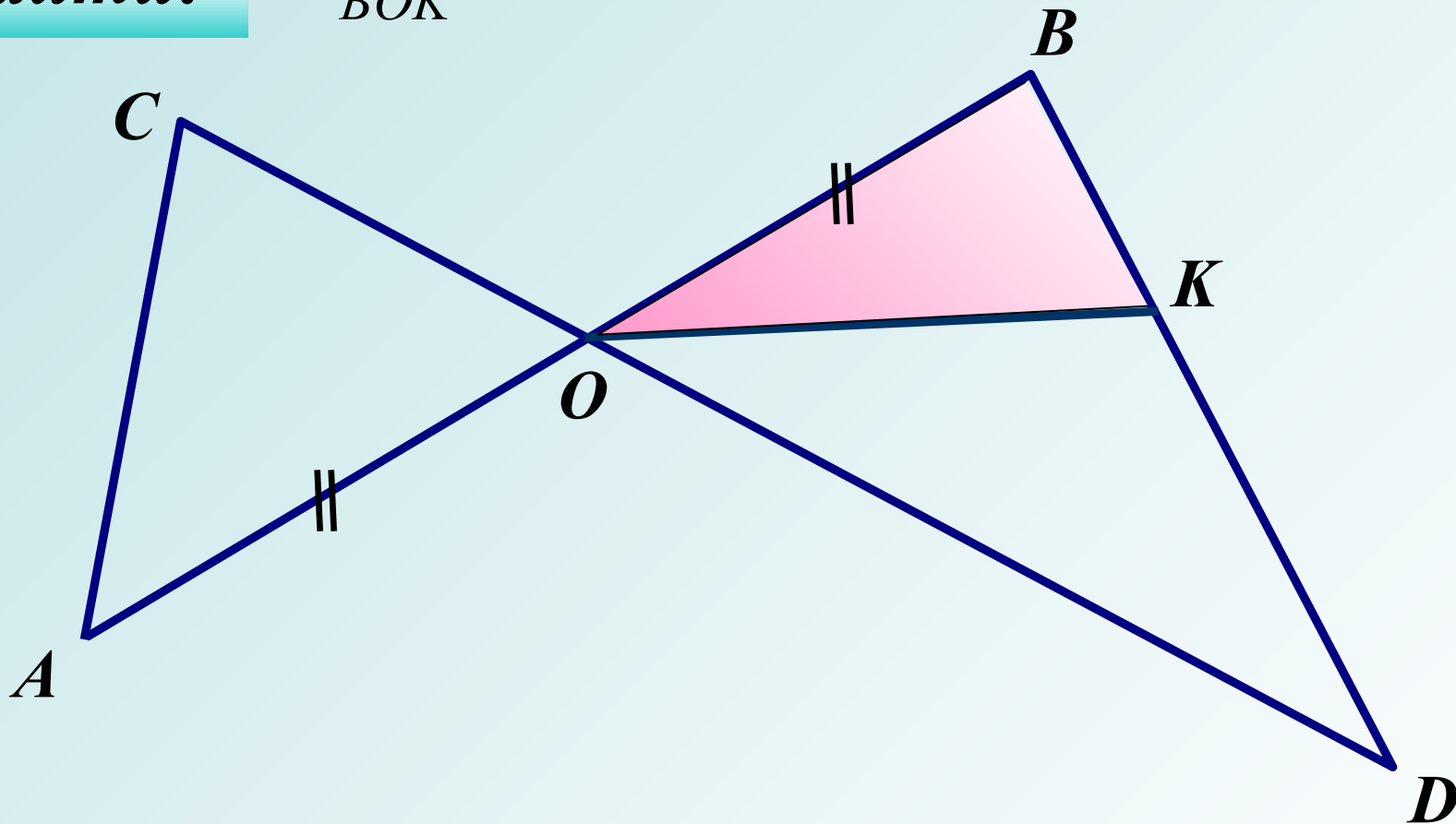
Дано:

$$BK : KD = 1 : 3$$

$$CO : OD = 2 : 3, S_{AOC} = 4\tilde{n}i^2$$

Найти:

$$S_{BOK}$$



8.

Дано:

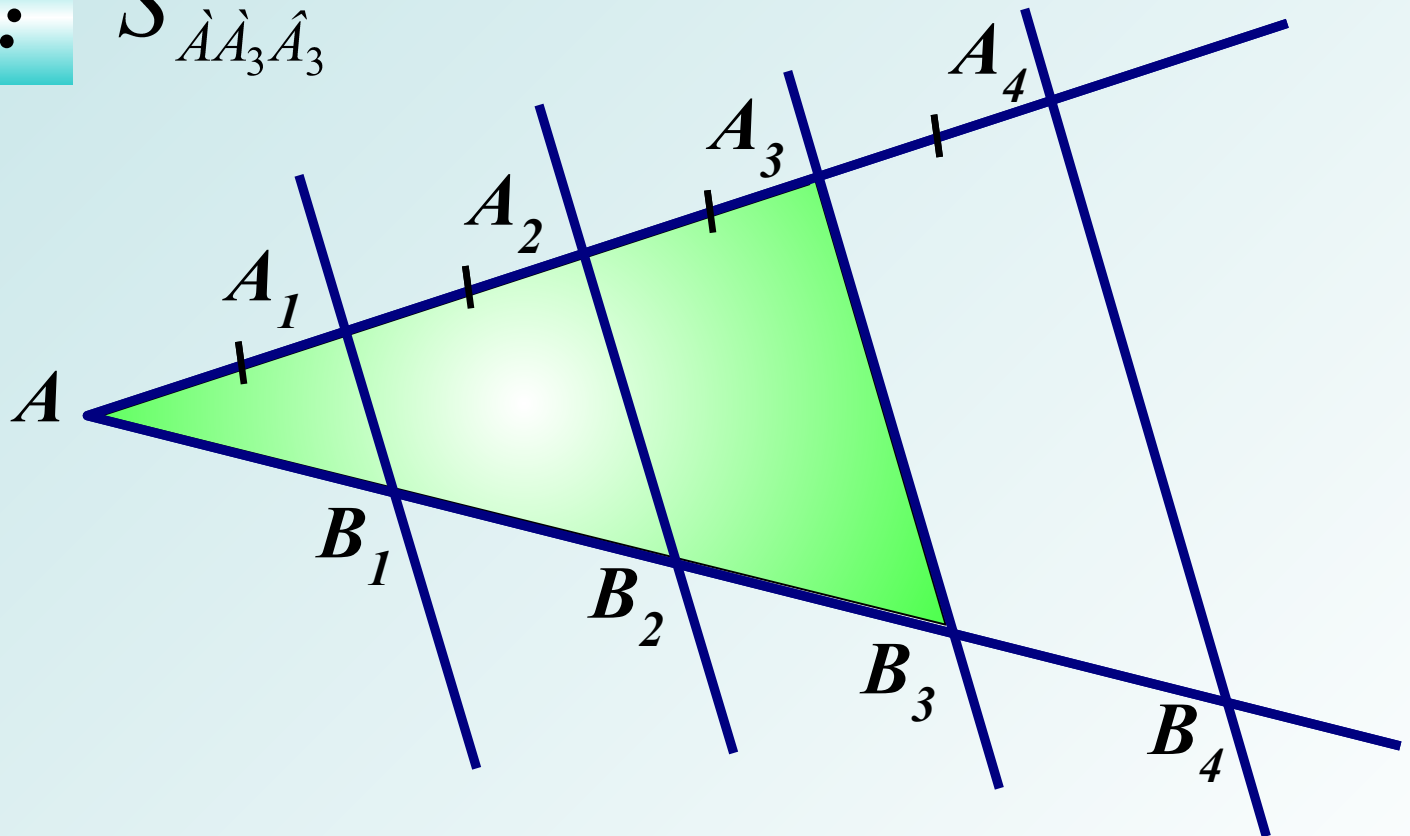
$$A_1B_1 \parallel A_2B_2 \parallel A_3B_3 \parallel A_4B_4$$

$$AA_1 = A_1A_2 = A_2A_3 = A_3A_4$$

$$AB_4 = 12\tilde{n}i, S_{AA_4B_4} = 32\tilde{n}i^2$$

Найти:

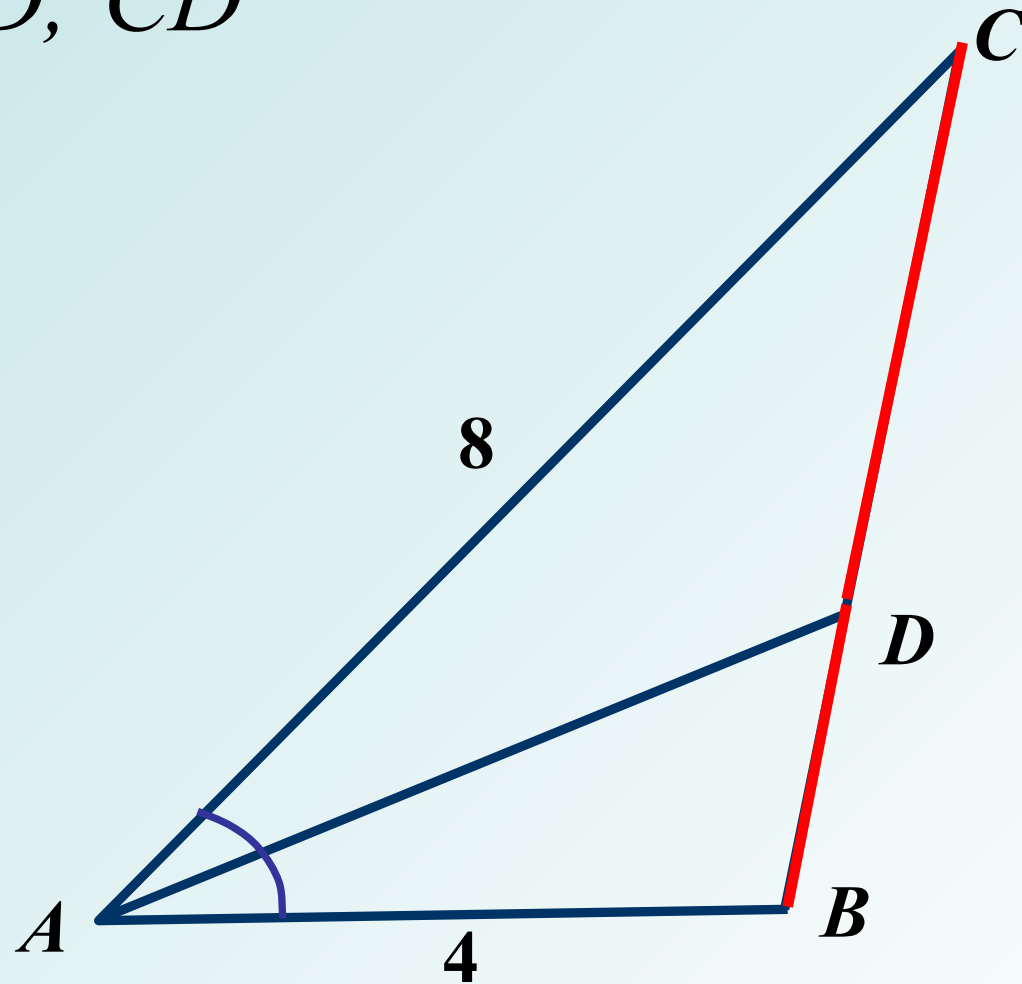
$$S_{AA_3A_3}$$



9.

Дано: $\triangle ABC$, AD – *áèññâêòðèñ à*
 $AB = 4$, $AC = 8$, $\hat{A} = 60^\circ$

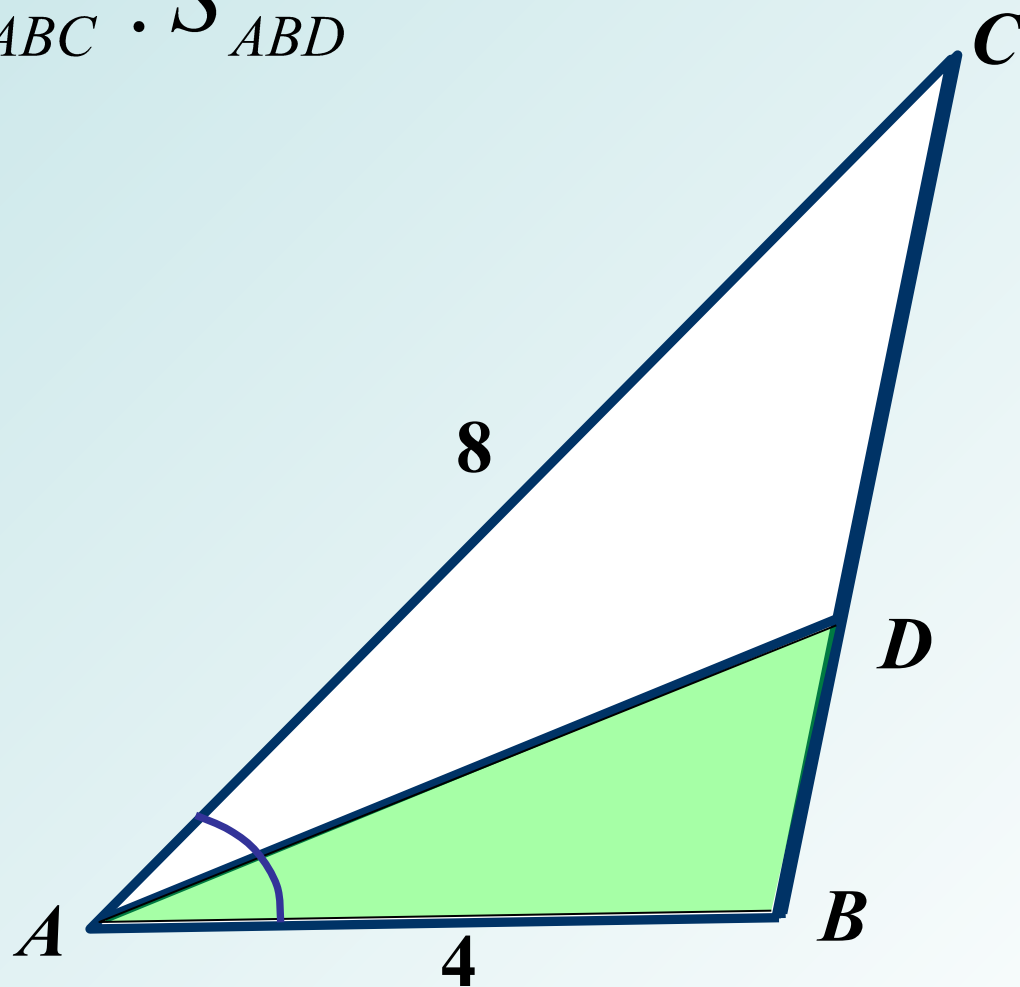
Найти: BD , CD



10.

Дано: $\triangle ABC$, AD – медиана
 $AB = 4$, $AC = 8$, $AD = 6$

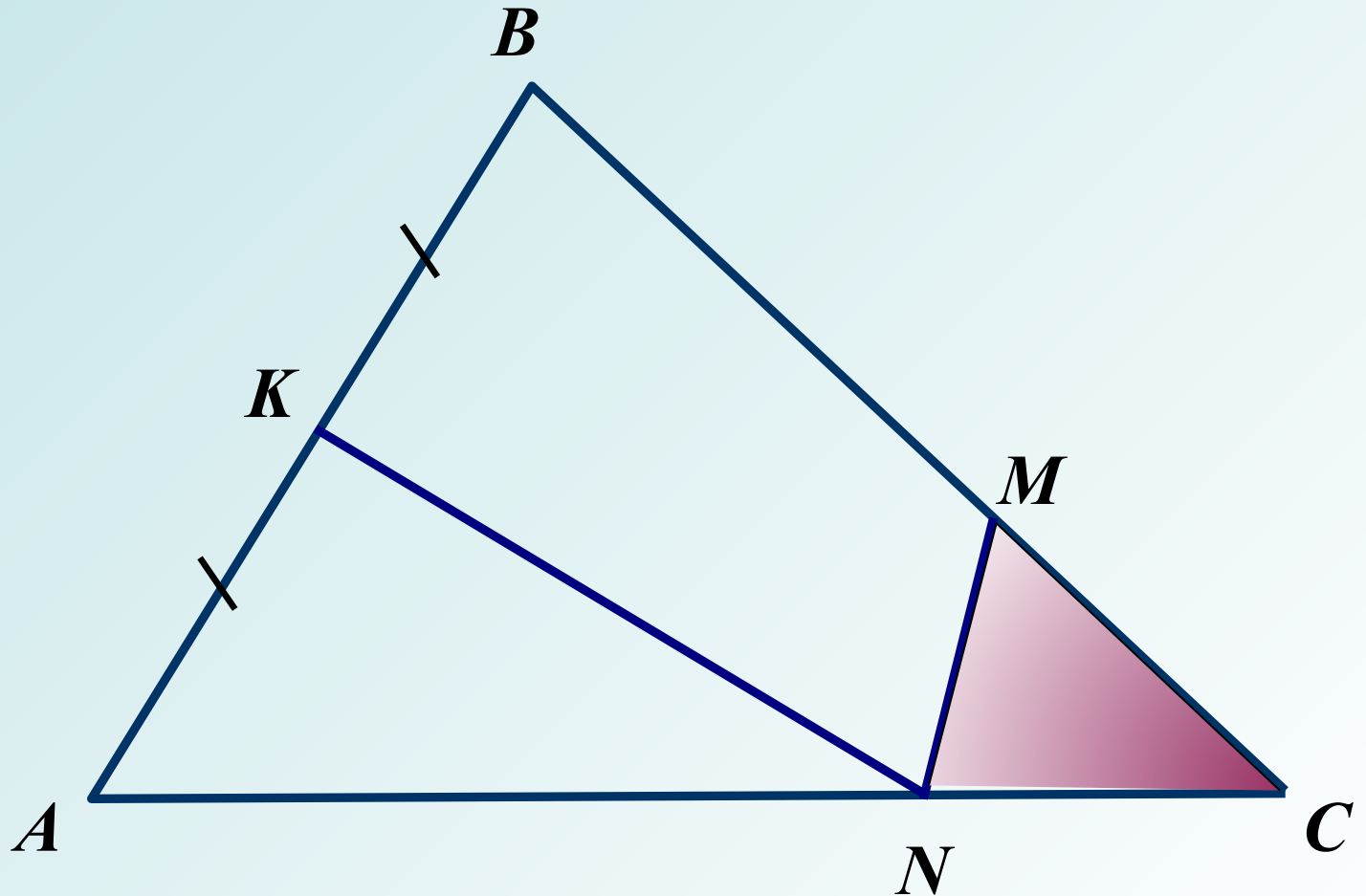
Найти: $S_{ABC} : S_{ABD}$



11.

Дано: $S_{ABC} = 36\tilde{n}i^2$, $AN : NC = 3 : 1$
 $BM : MC = 2 : 1$, $AK = KB$

Найти: $S_{\tilde{N}MN}$



12.

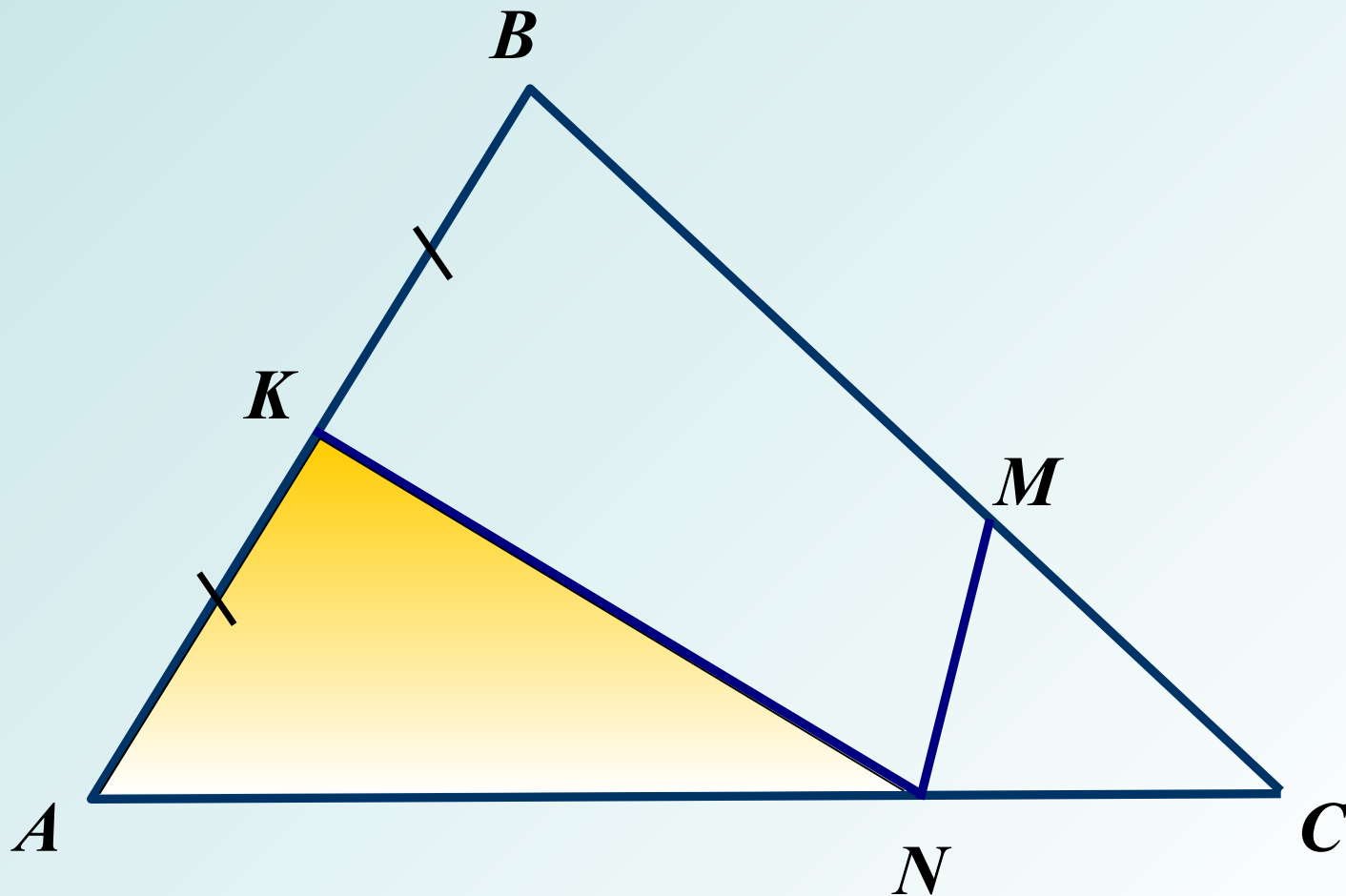
Дано:

$$S_{ABC} = 36 \text{ см}^2, \quad AN : NC = 3 : 1$$

$$BM : MC = 2 : 1, \quad AK = KB$$

Найти:

$$S_{AEN}$$



13.

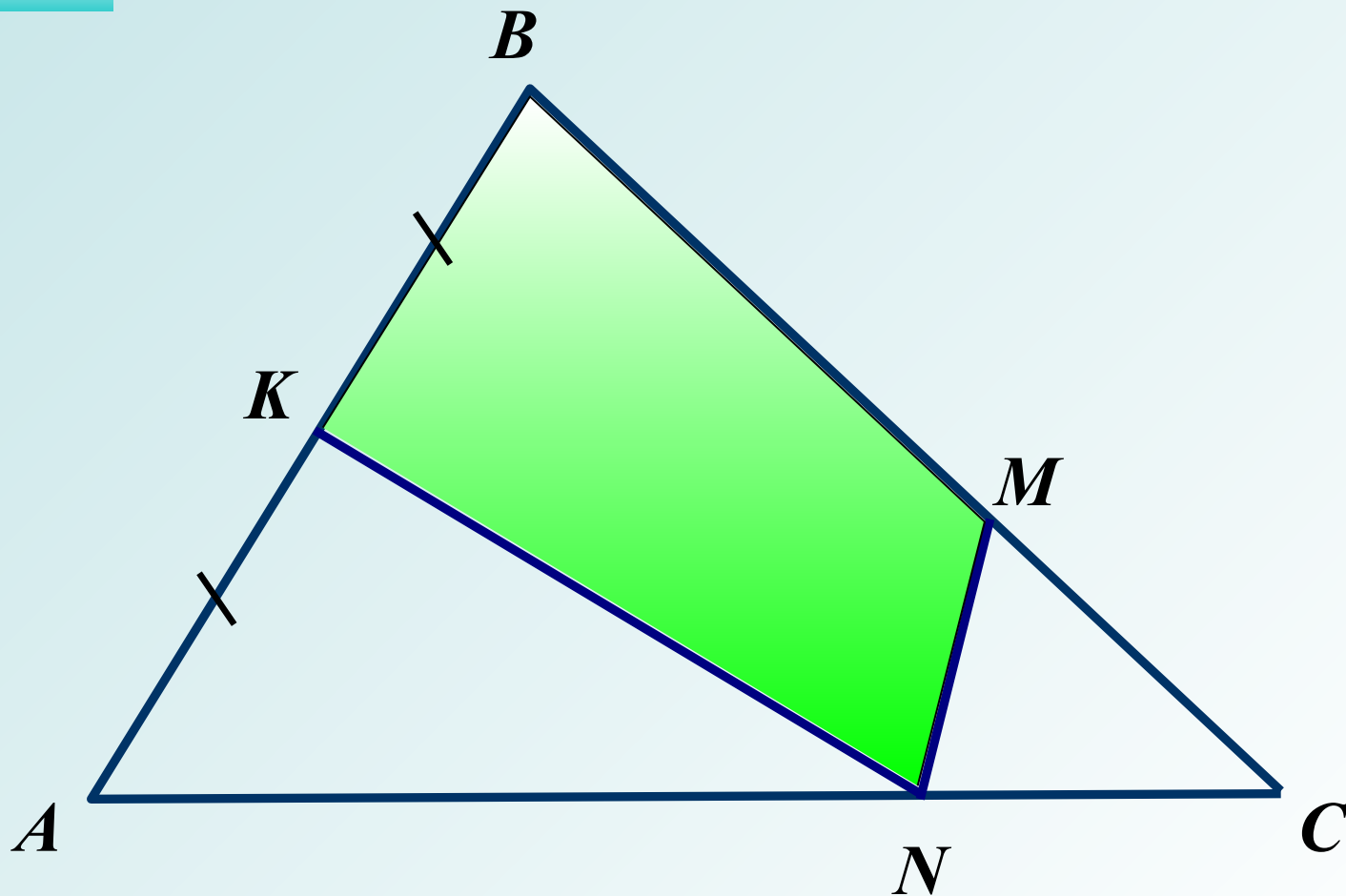
Дано:

$$S_{ABC} = 36 \text{ см}^2, \quad AN : NC = 3 : 1$$

$$BM : MC = 2 : 1, \quad AK = KB$$

Найти:

$$S_{\triangle ENI}$$



14.

Дано:

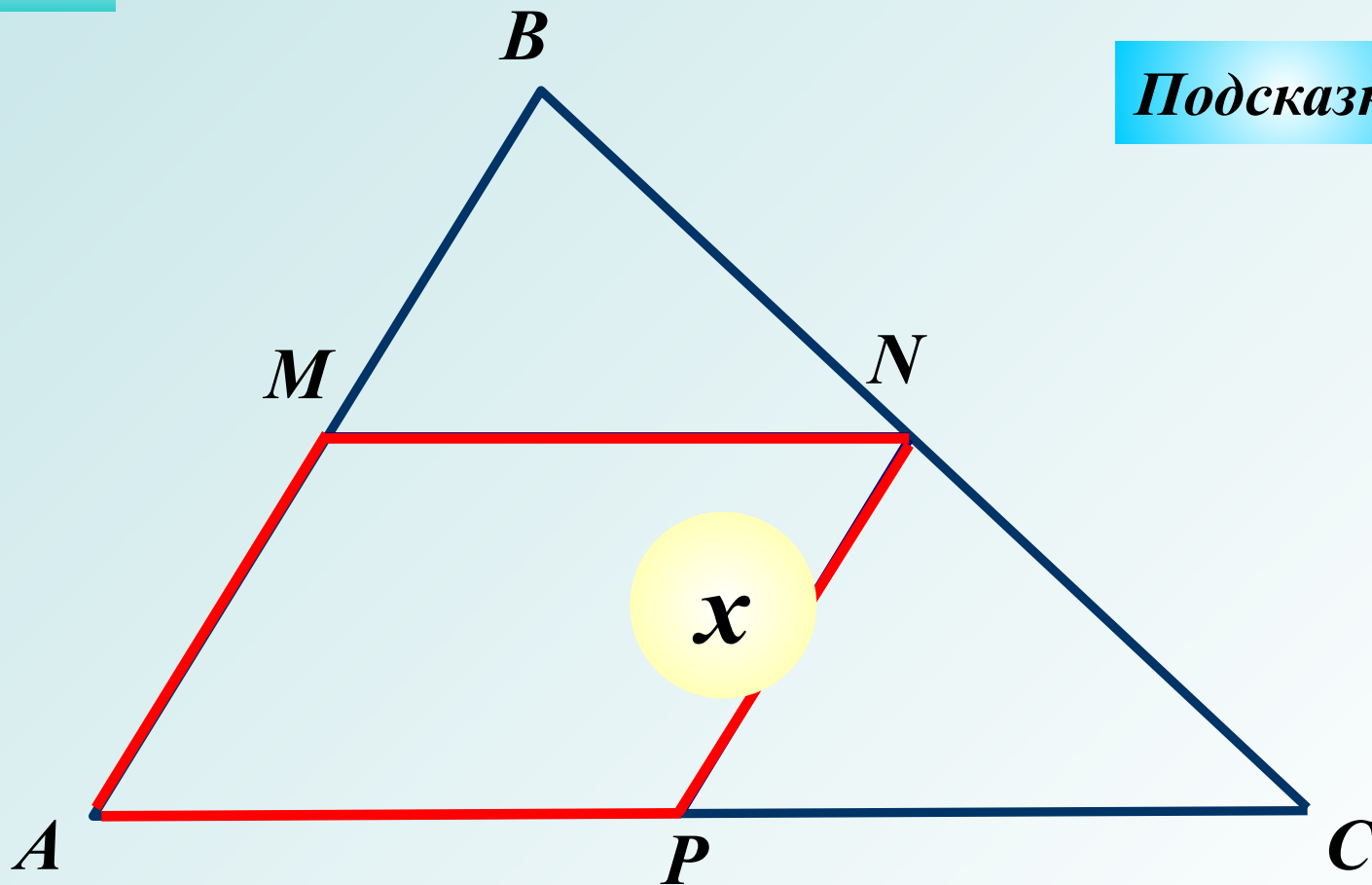
$$AB = 10 \text{ см}, AC = 15 \text{ см}$$

$$MN \parallel AC, NP \parallel AB, DN : MN = 2 : 3$$

Найти:

$$AM, MN, NP, AP$$

Подсказка.



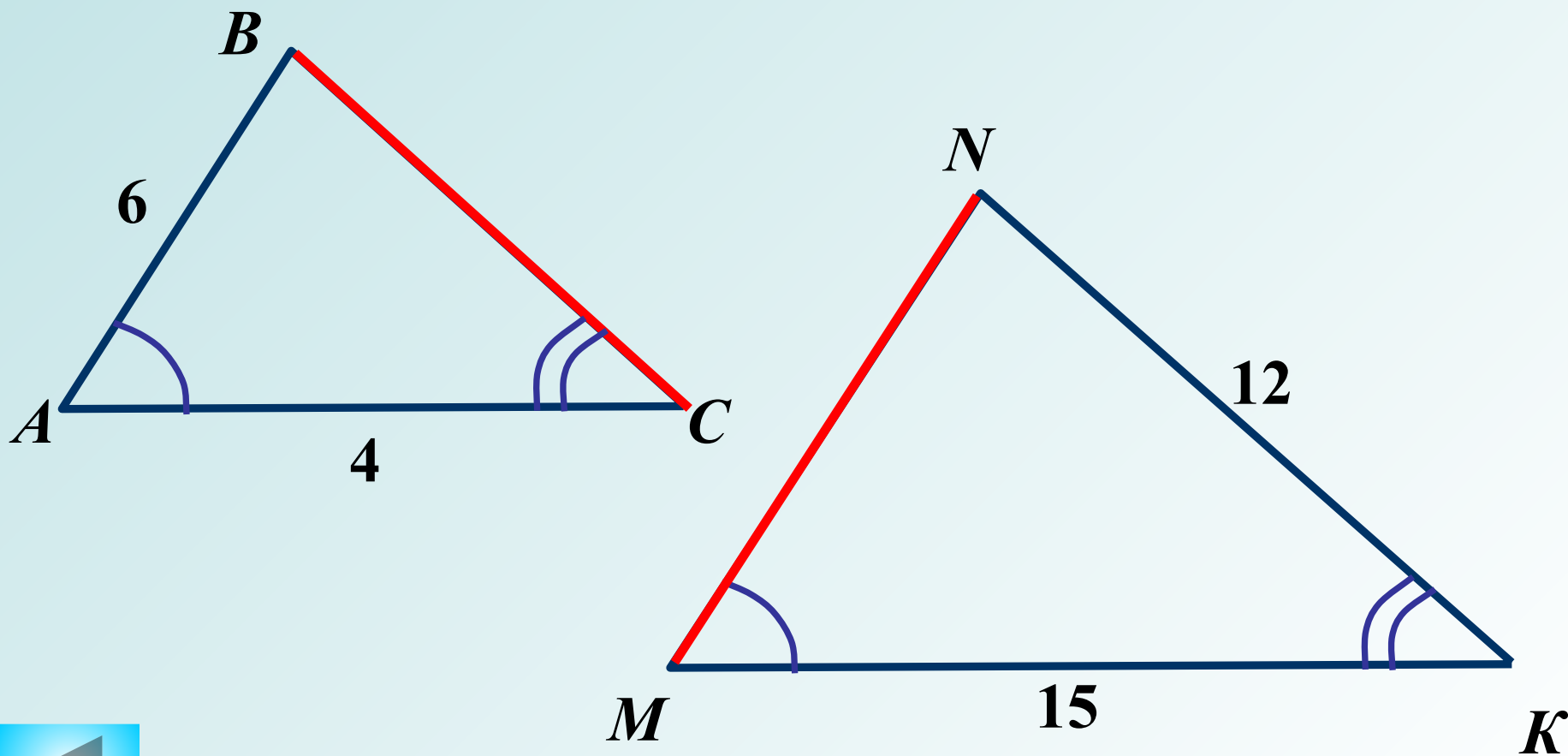
15.

Дано:

$\triangle ABC, \triangle MNK$

Найти:

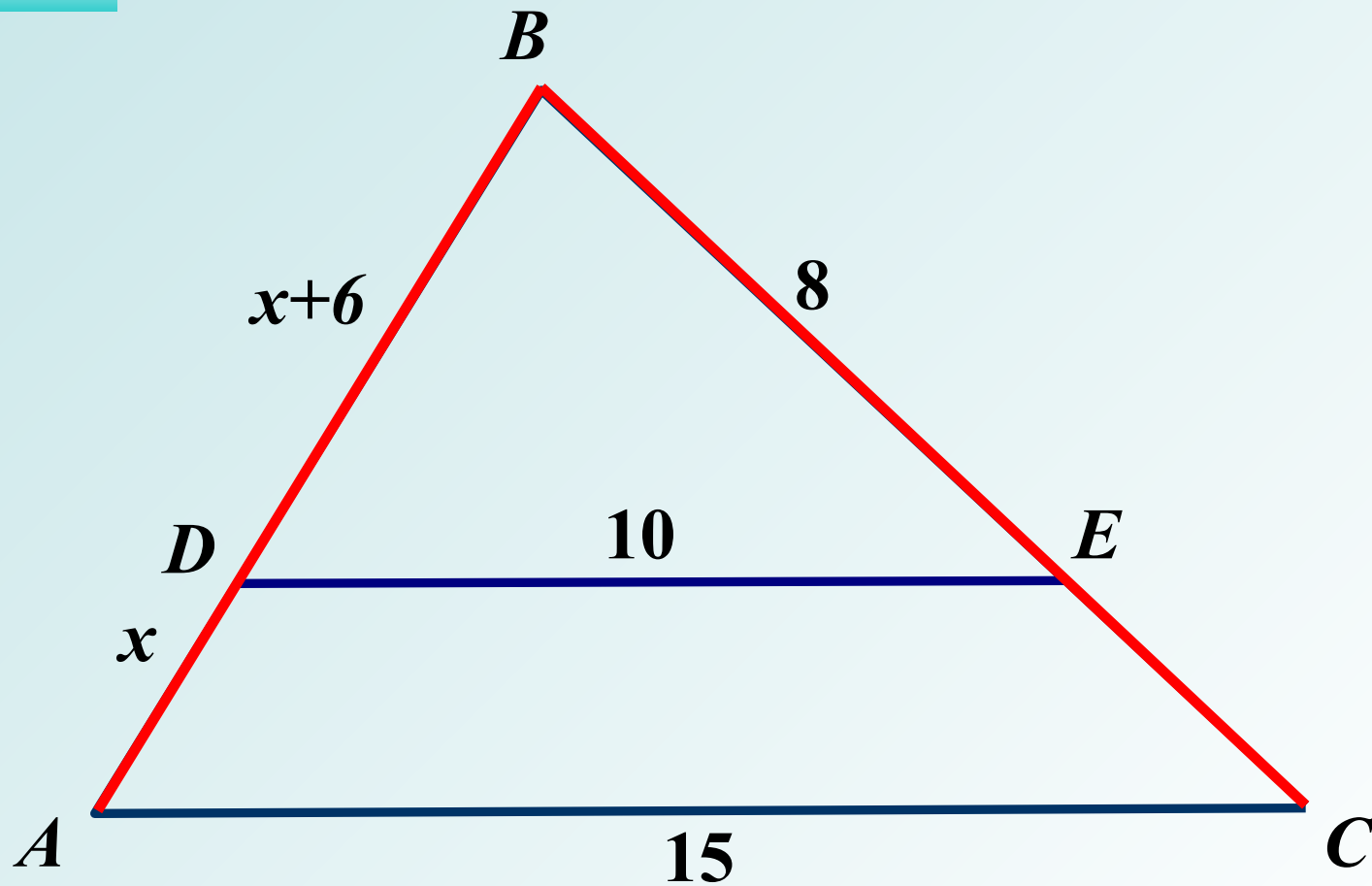
$\hat{A}\tilde{N}, MN$



16.

Дано: $\triangle ABC$, $DE \parallel AC$

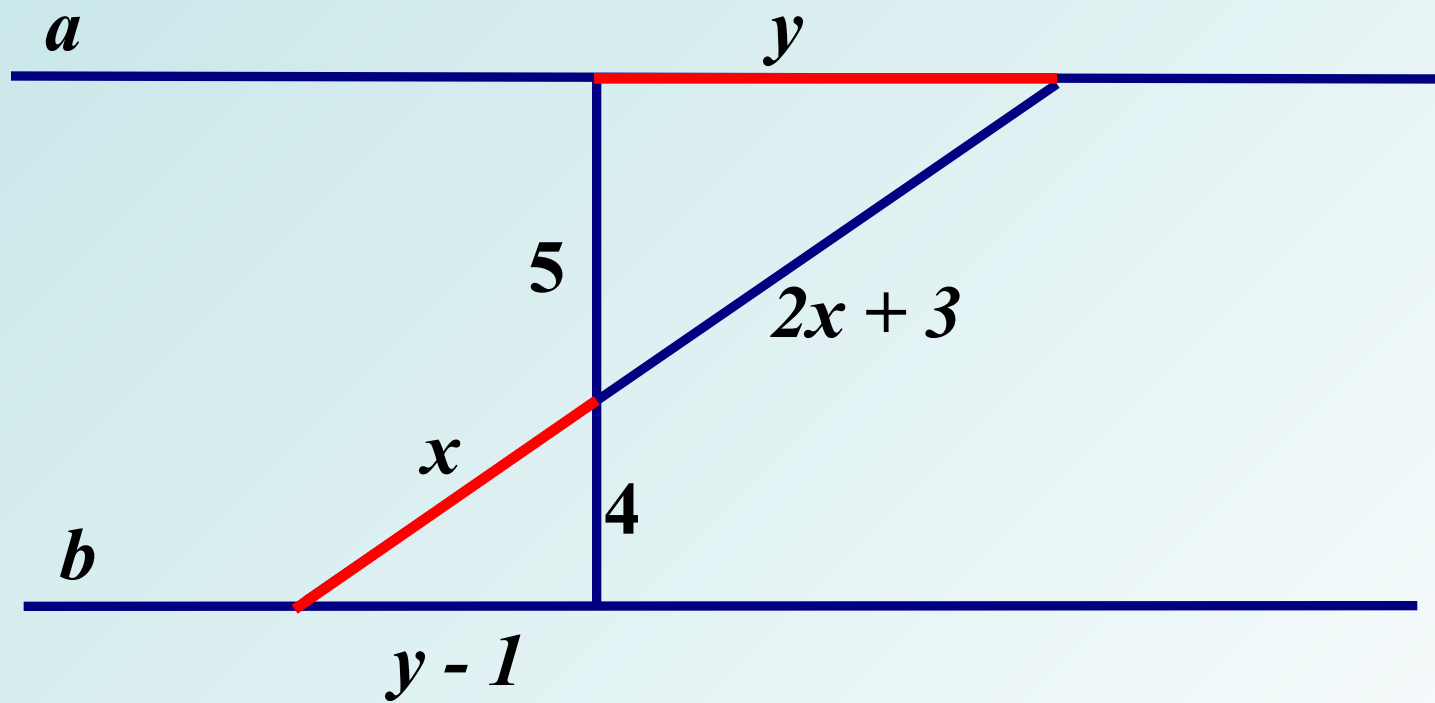
Найти: \hat{A} , \hat{B}



17.

Дано: $a \parallel b$

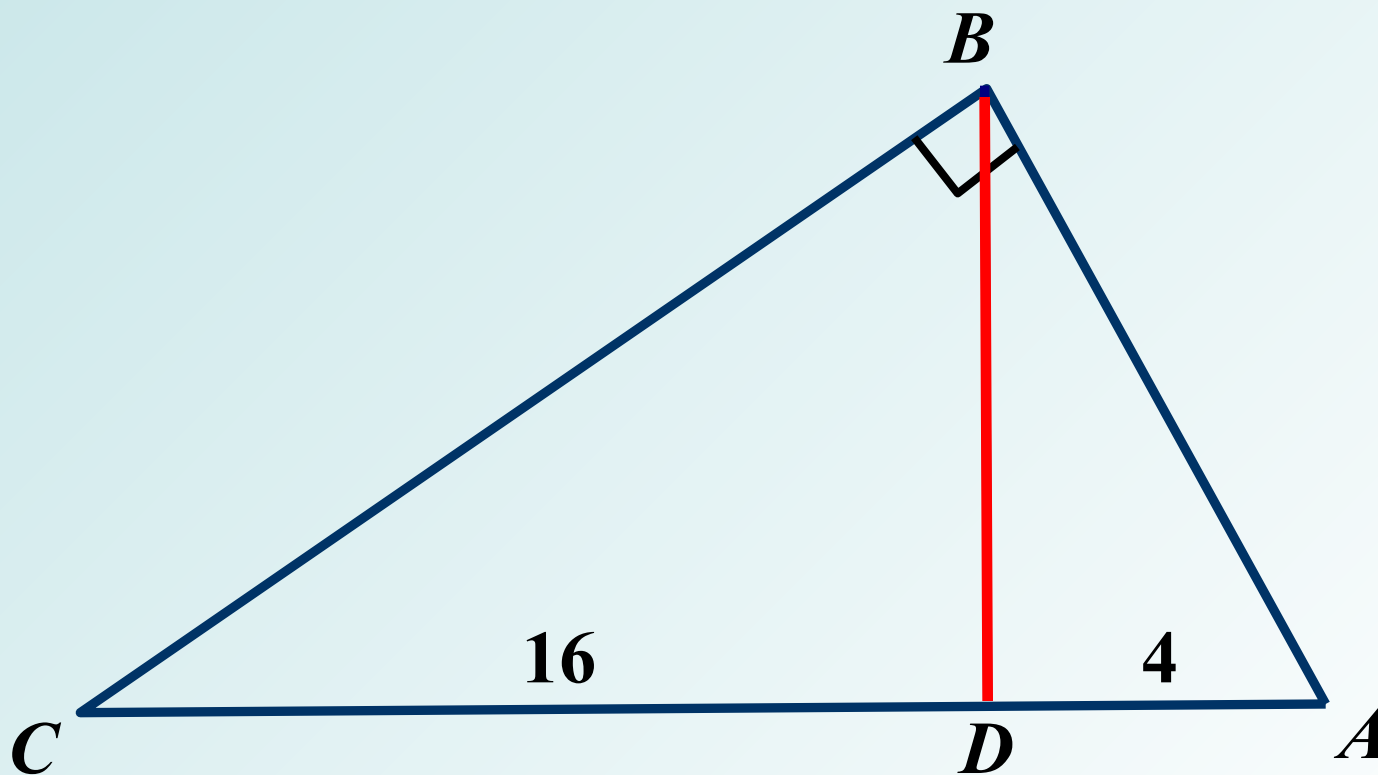
Найти: $\tilde{\alpha}$, $\acute{\alpha}$



18.

Дано: $\triangle ABC$

Найти: BD



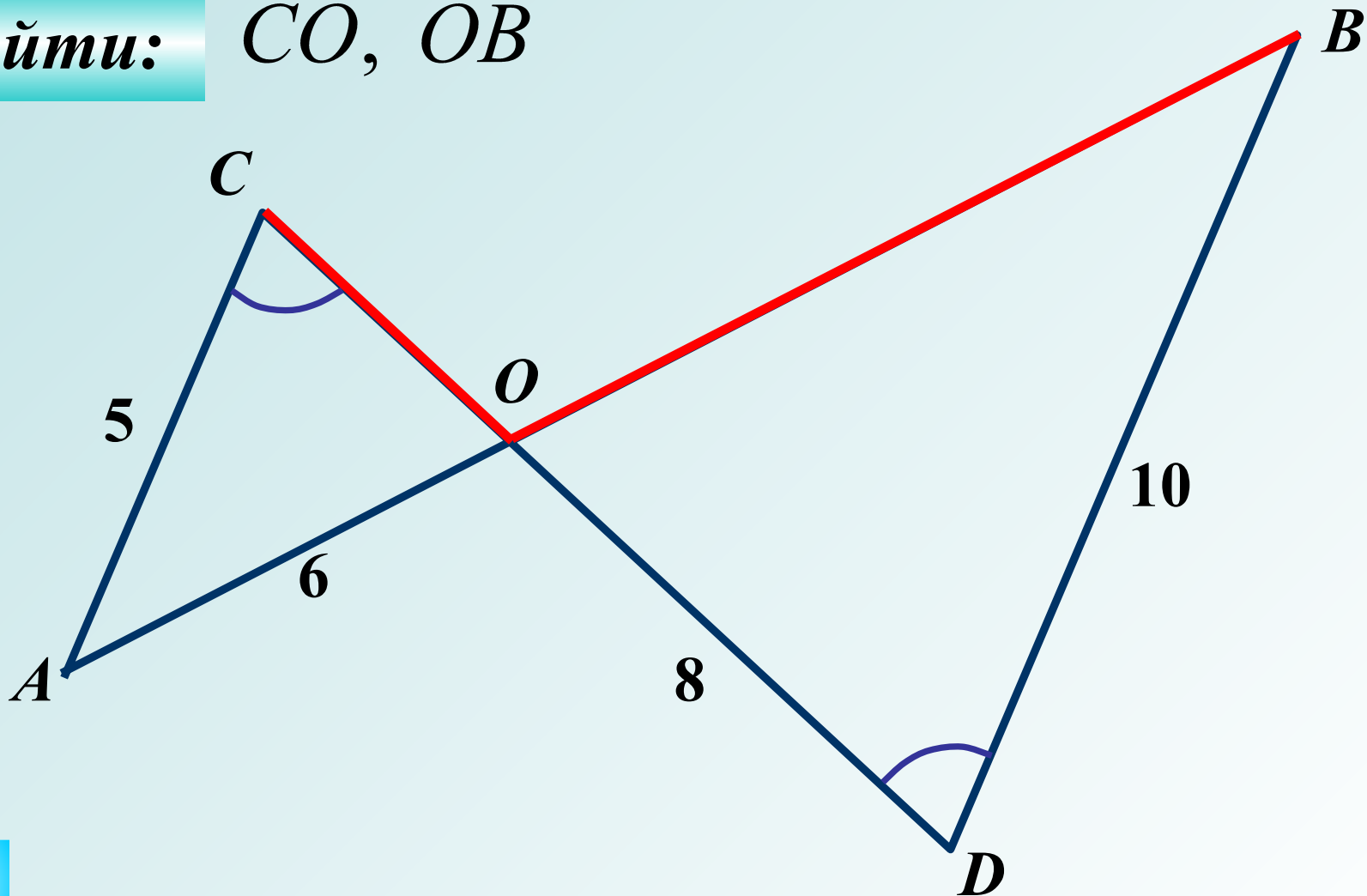
19.

Дано:

$AC \parallel BD$

Найти:

CO, OB



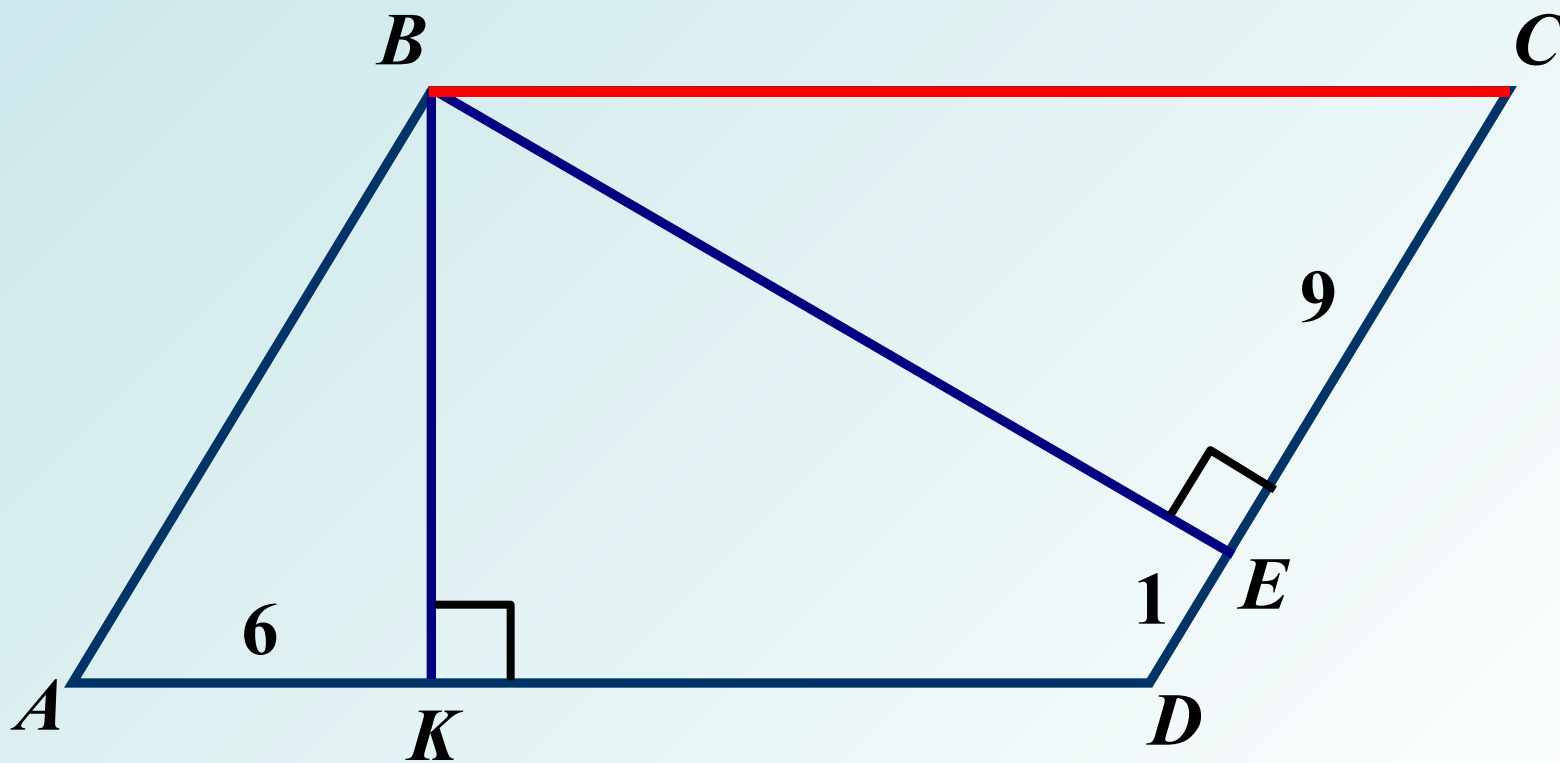
20.

Дано:

$ABCD$ – трапеция

Найти:

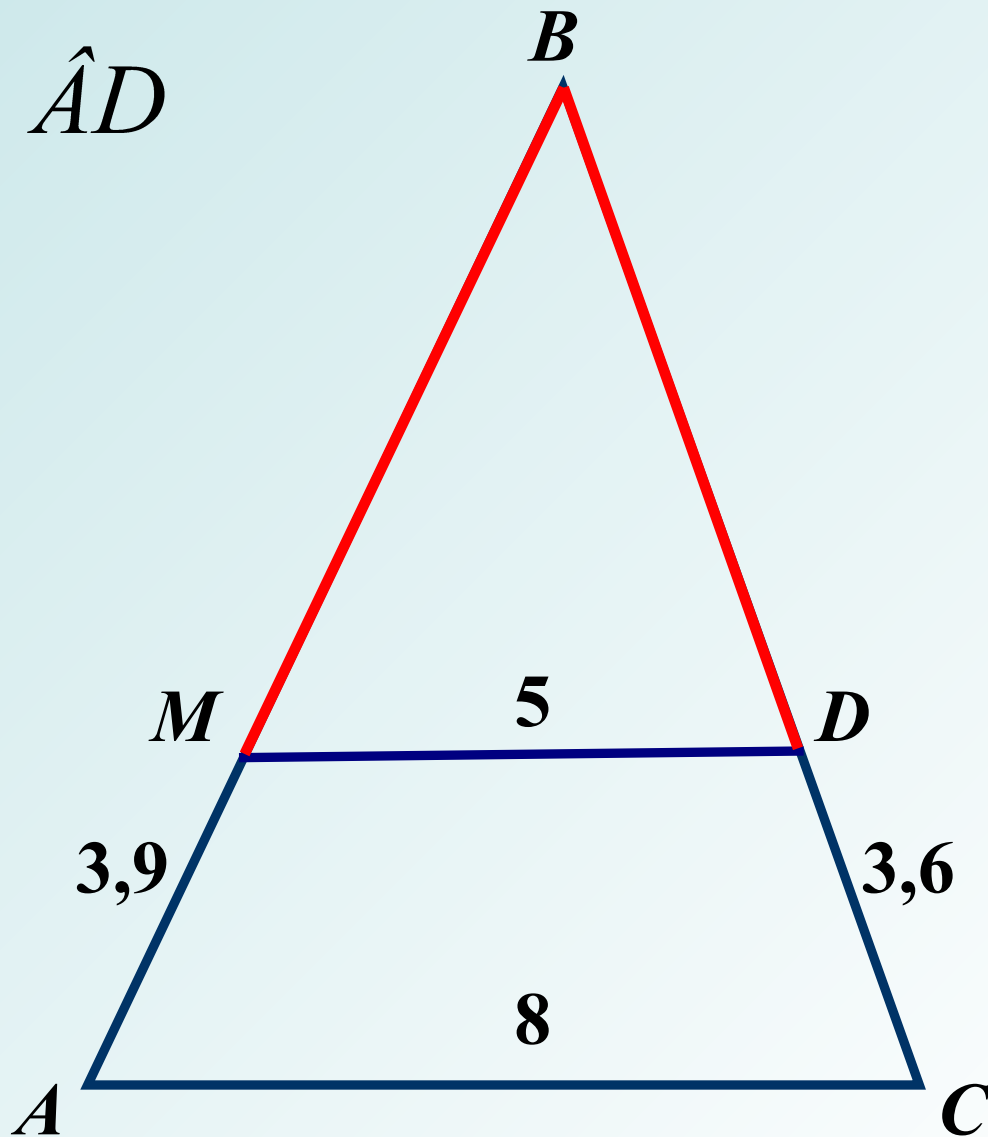
$\hat{A}\tilde{N}$



21.

Дано: $\triangle ABC$ – $\triangle ABC$

Найти: $\angle M$, $\angle D$



22.

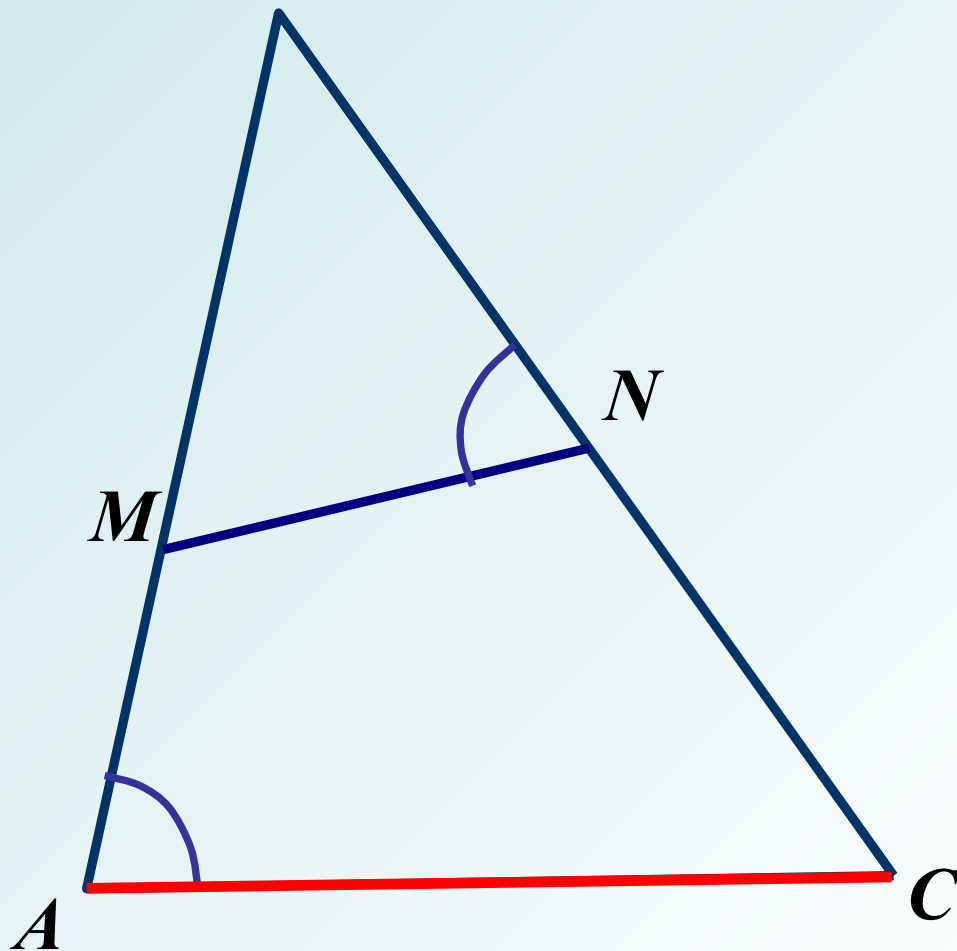
Дано:

$\triangle ABC$, $BC = 12$, $BM = 6$

$MN = 4$

Найти:

AC



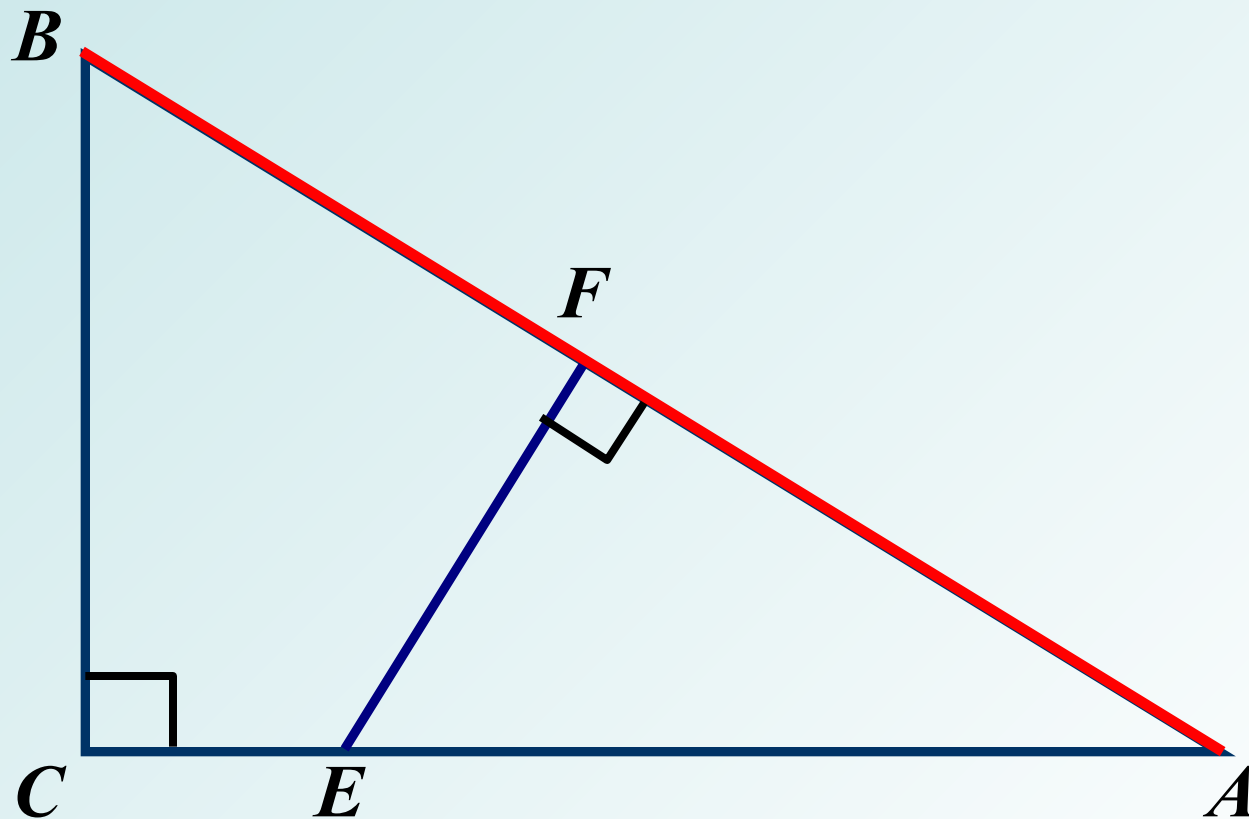
23.

Дано:

$\triangle ABC$, $\hat{A} \tilde{N} \perp AC$, $EF \perp AB$
 $BC = 12$, $AE = 10$, $EF = 6$

Найти:

AB



24.

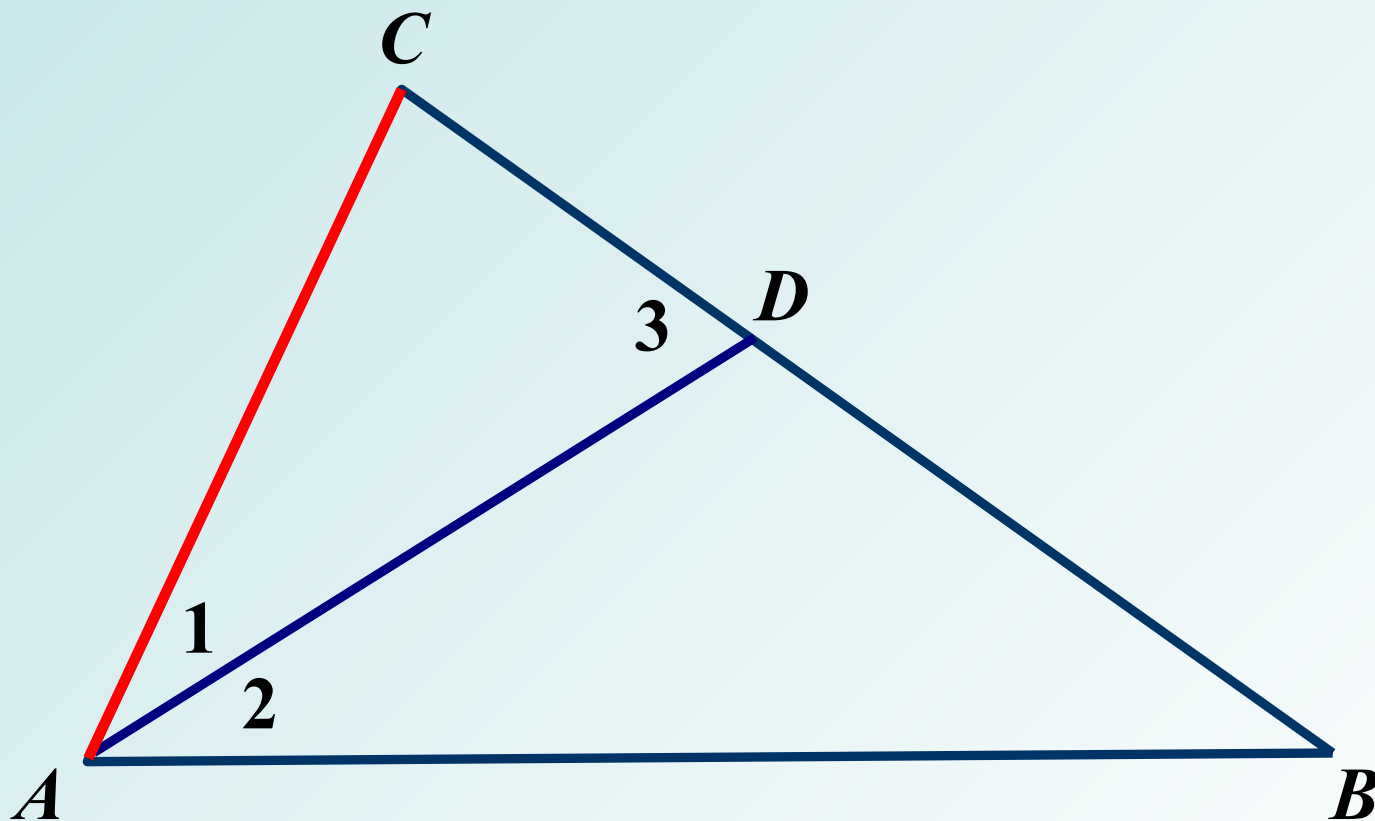
Дано:

$$\triangle ABC, \angle 3 = \angle 1 + \angle 2$$

$$CD = 4, BC = 9$$

Найти:

AC



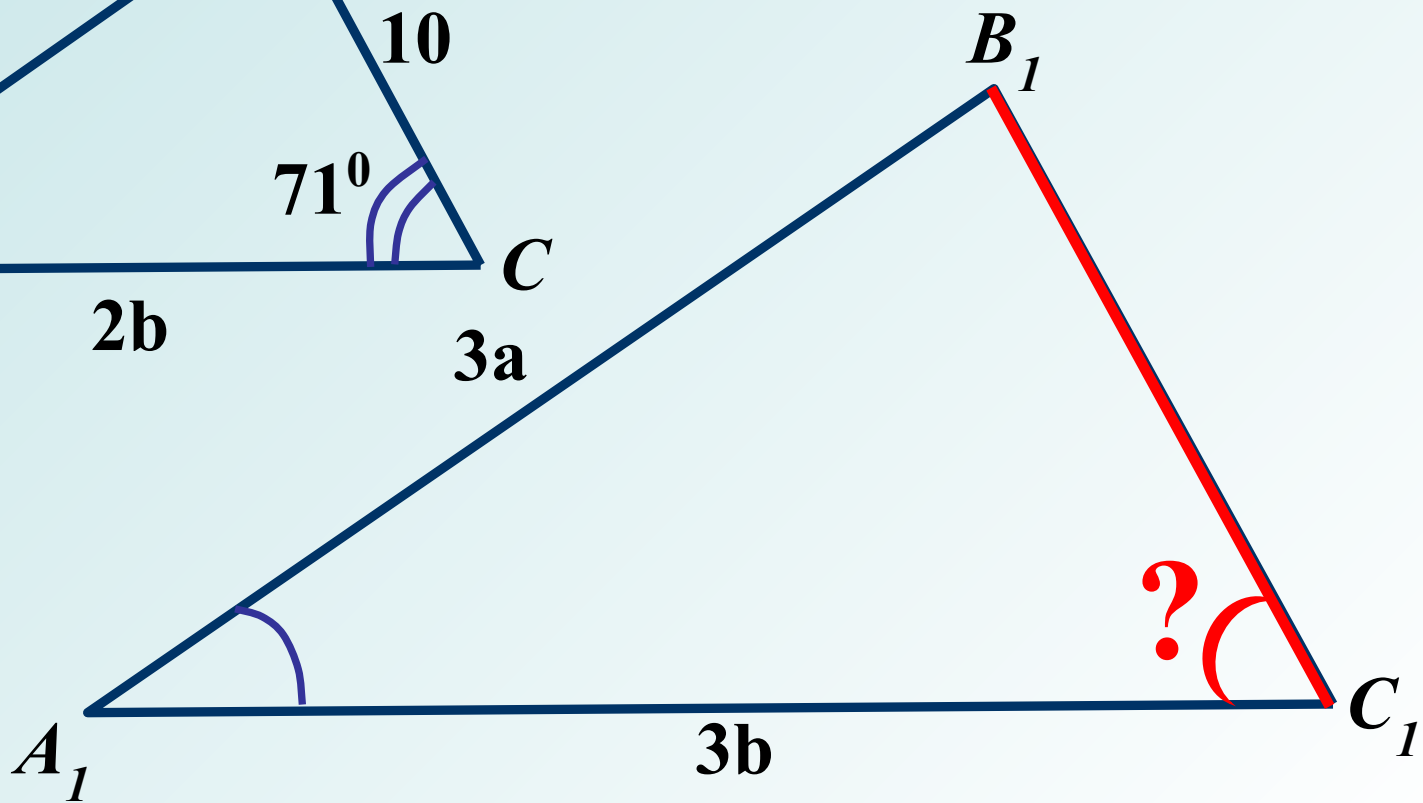
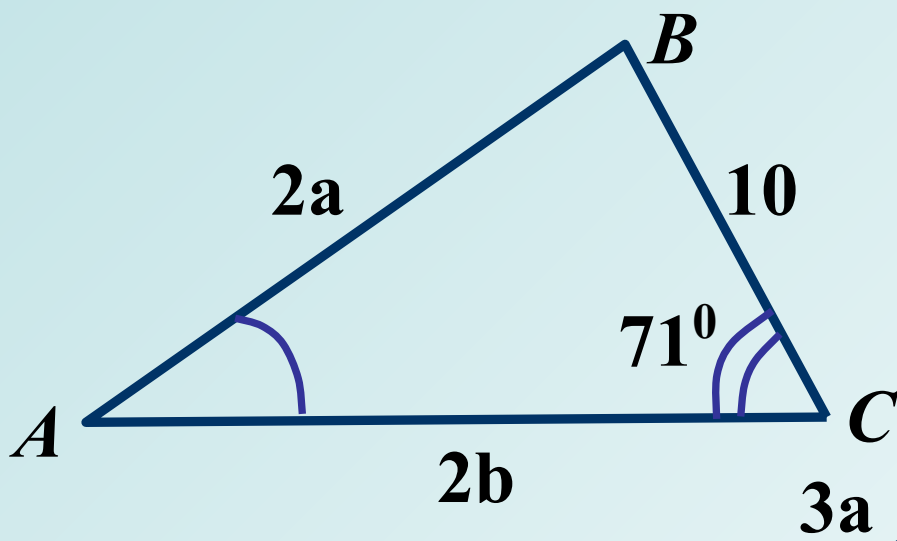
25.

Дано:

$\triangle ABC, \triangle A_1B_1\tilde{N}_1$

Найти:

$\angle C_1, B_1C_1$



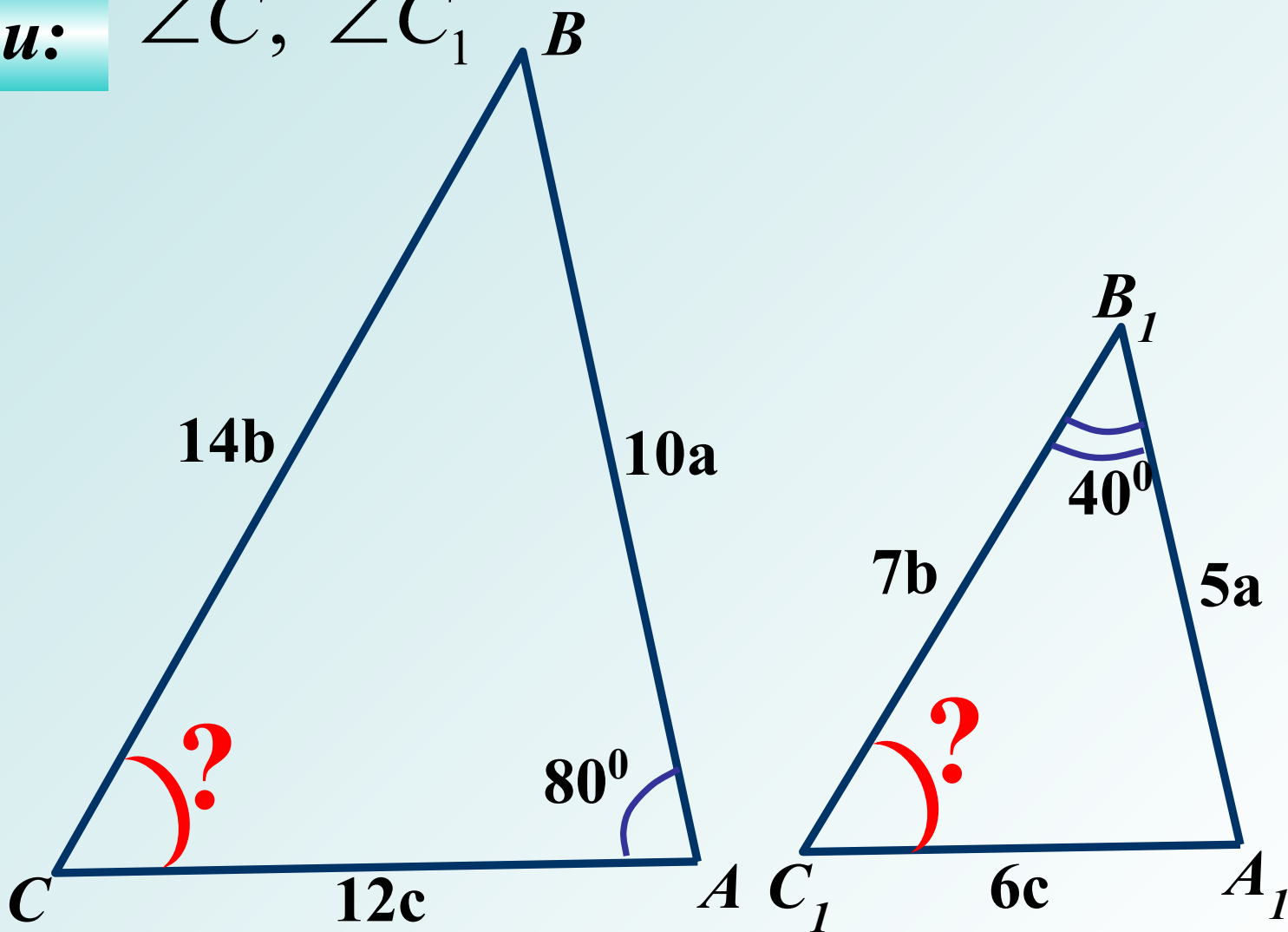
26.

Дано:

$\triangle ABC, \triangle A_1\hat{A}_1\tilde{N}_1$

Найти:

$\angle C, \angle C_1$

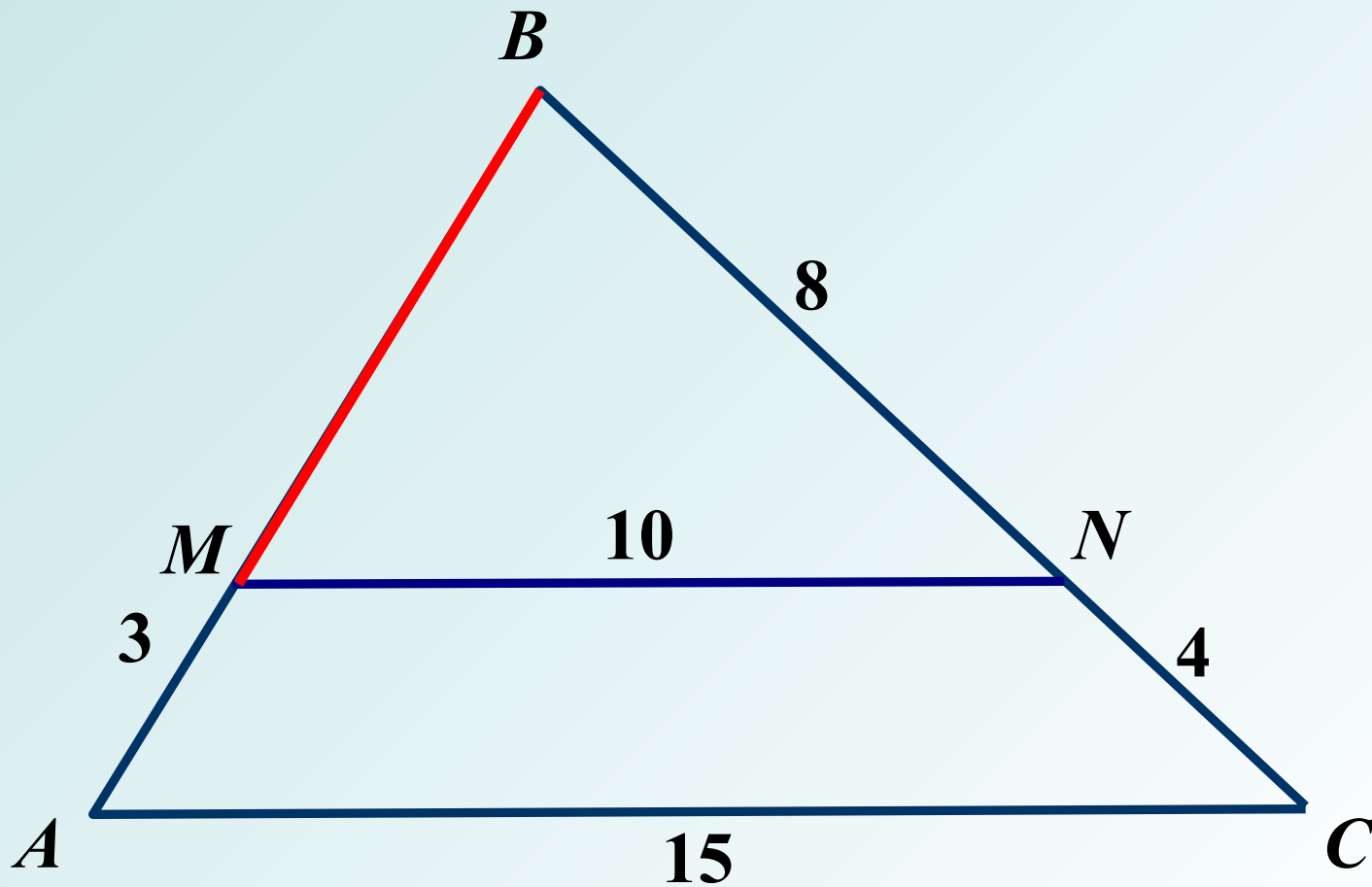


27.

Дано:

$\triangle ABC$, $\triangle MBN$

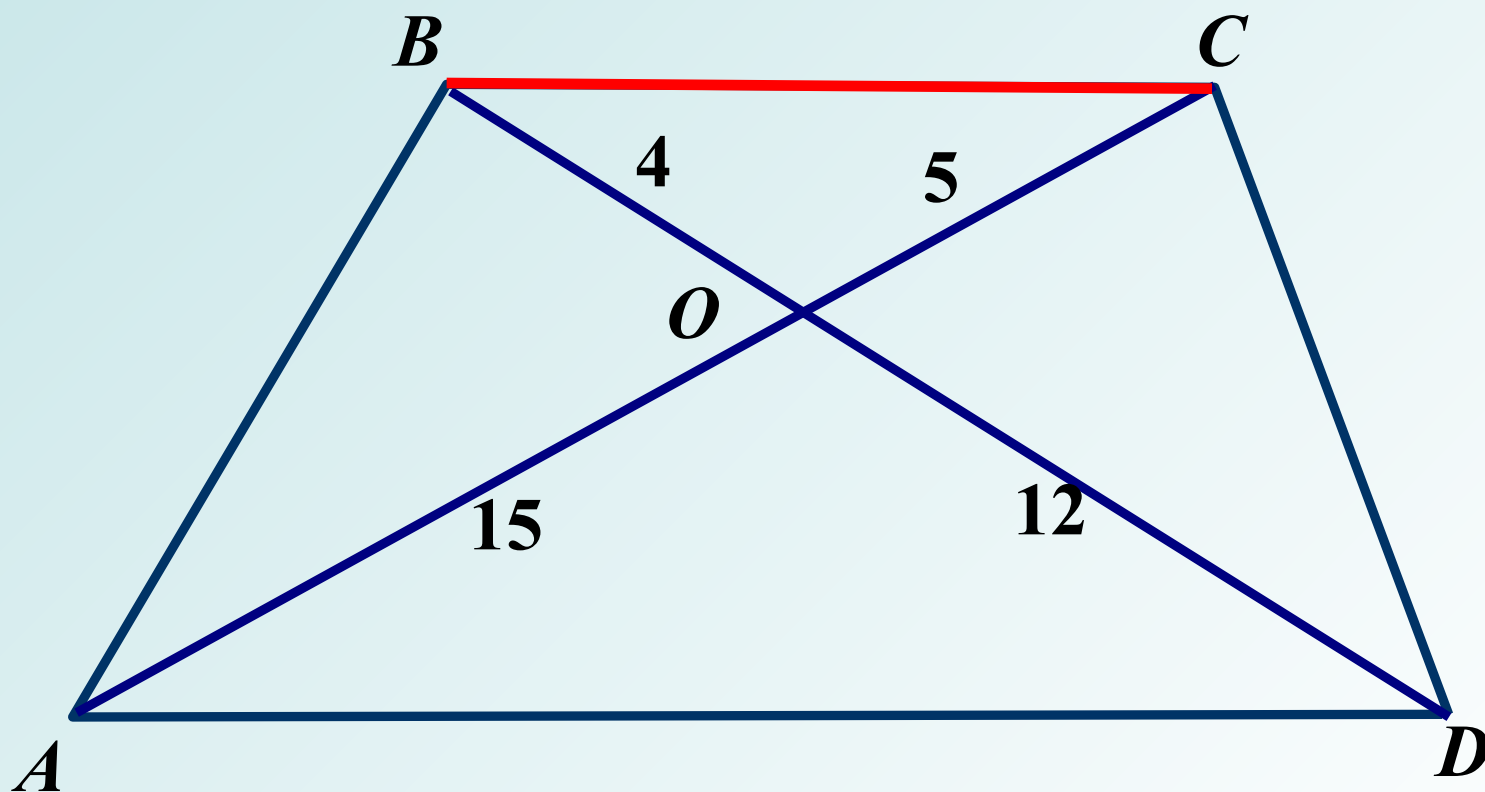
Найти: BM



28.

Дано: $ABCD$ – о́дàïáöèÿ

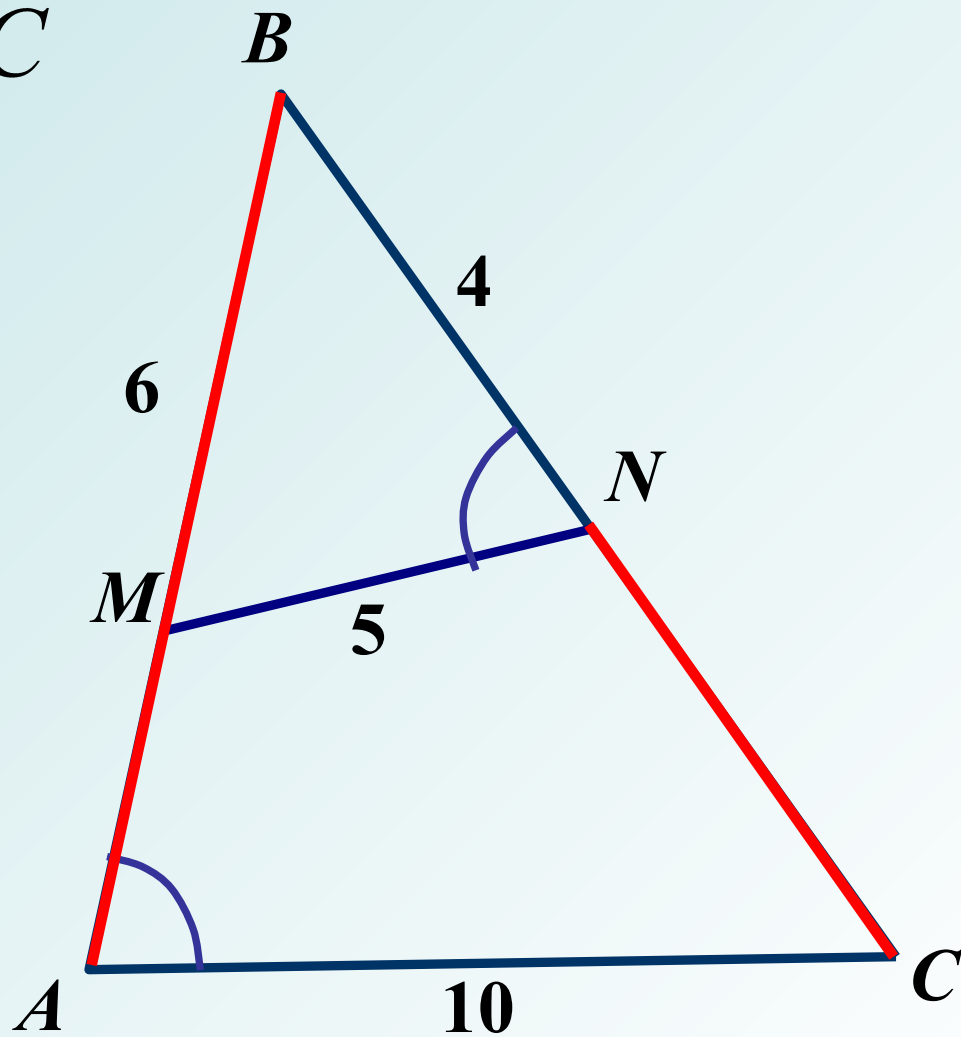
Найти: BC



29.

Дано: $\triangle ABC$

Найти: AB, NC



30.

Дано:

$\triangle ABC, MN \parallel AC$
 $S_{ABC} : S_{BNM} = 49 : 25$

Найти:

AC

