

Решение задач на готовых чертежах. Подобные треугольники.

Геометрия. 8 класс.



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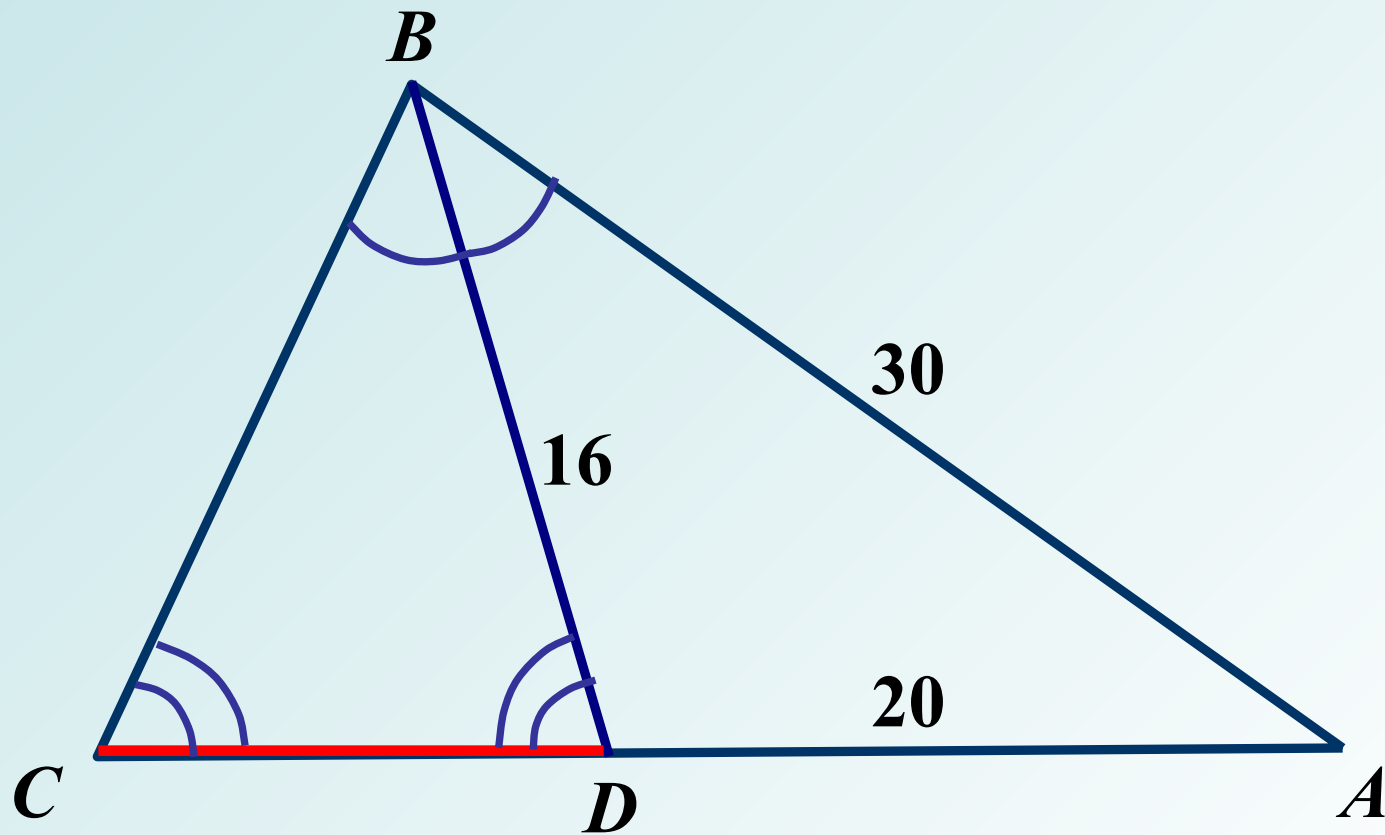
**29**

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1.

*Дано:*  $\triangle ABC$

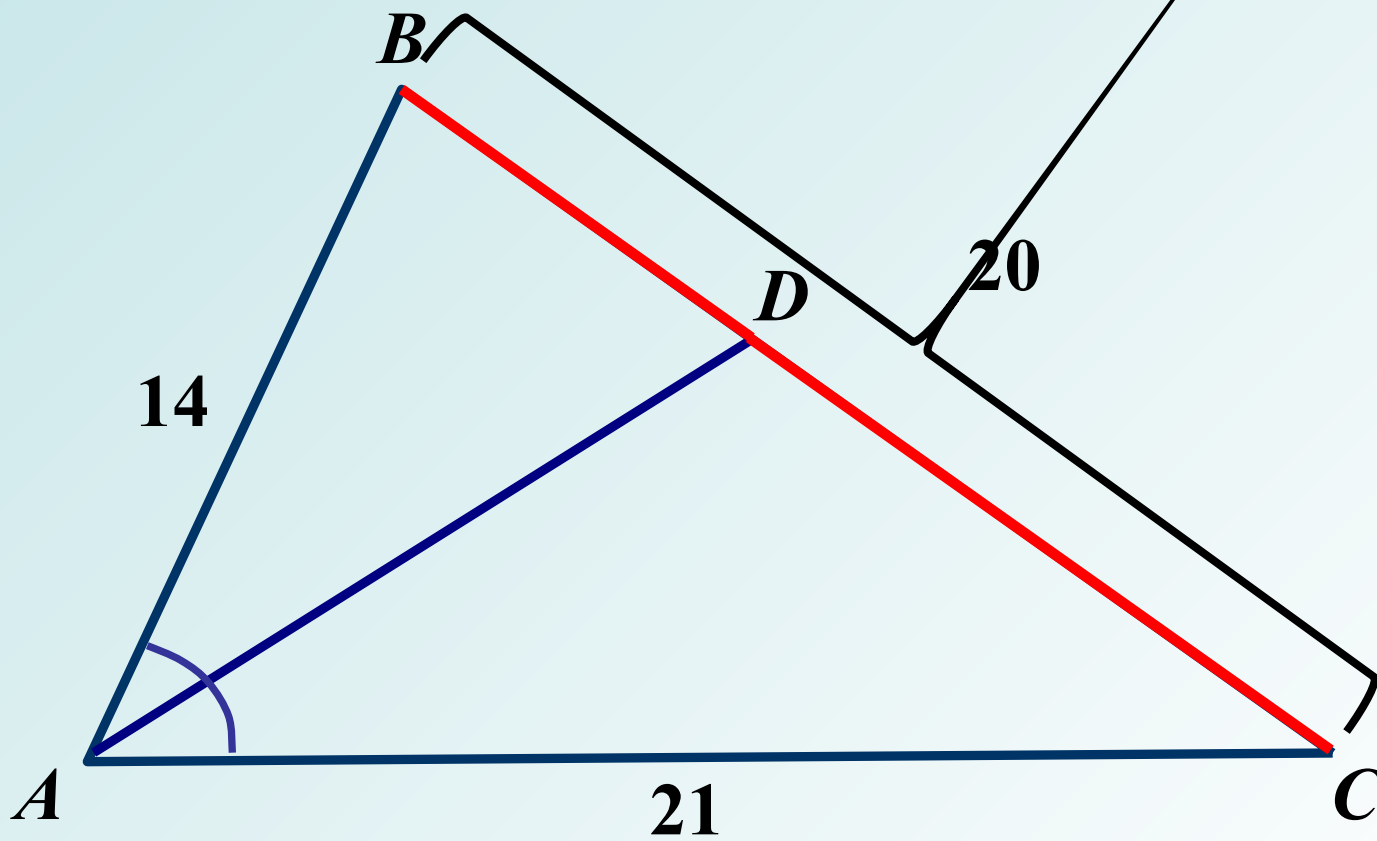
*Найти:*  $DC$



2.

Дано:  $\triangle ABC$

Найти:  $\hat{A}D$ ,  $D\tilde{N}$



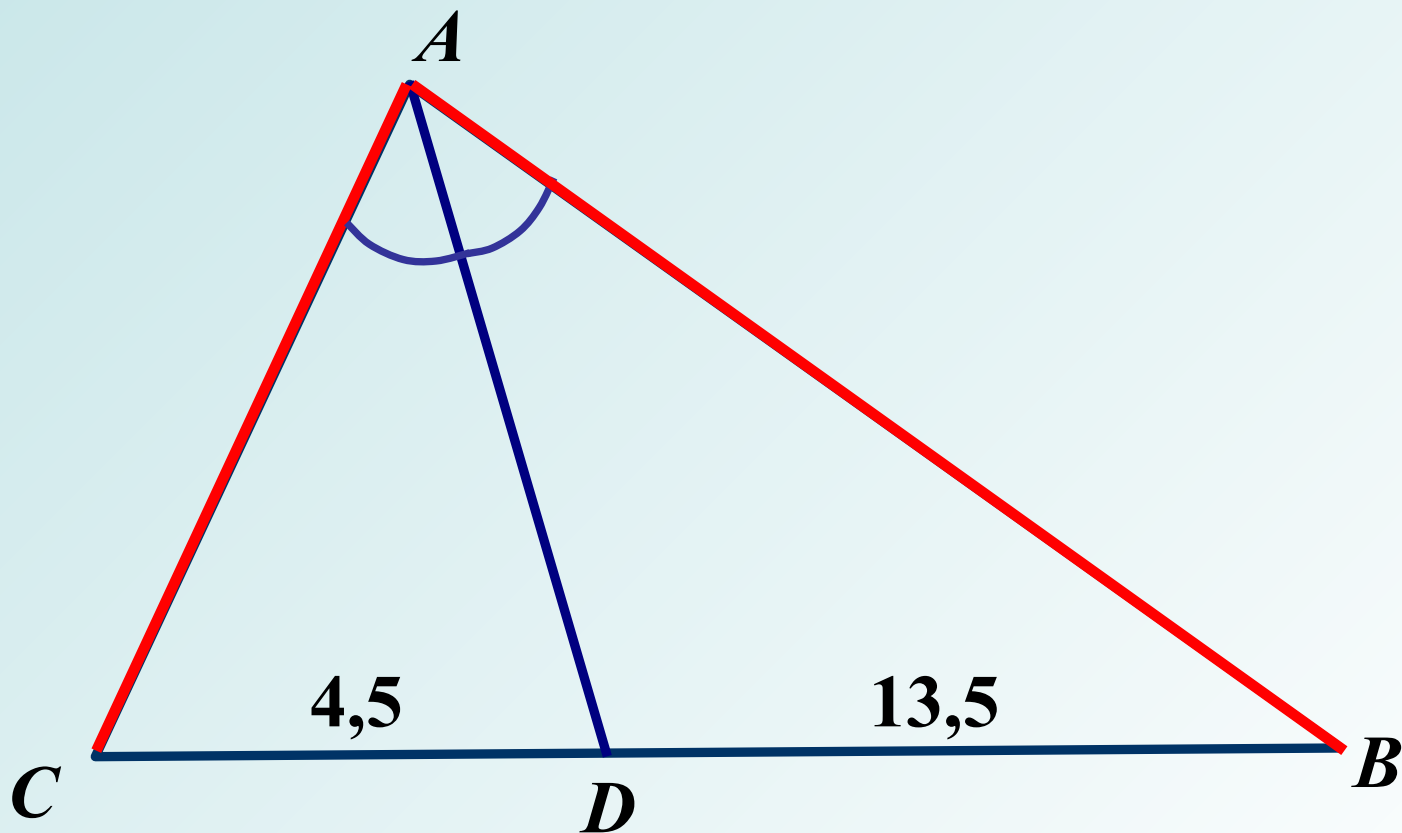
3.

**Дано:**

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

**Найти:**

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

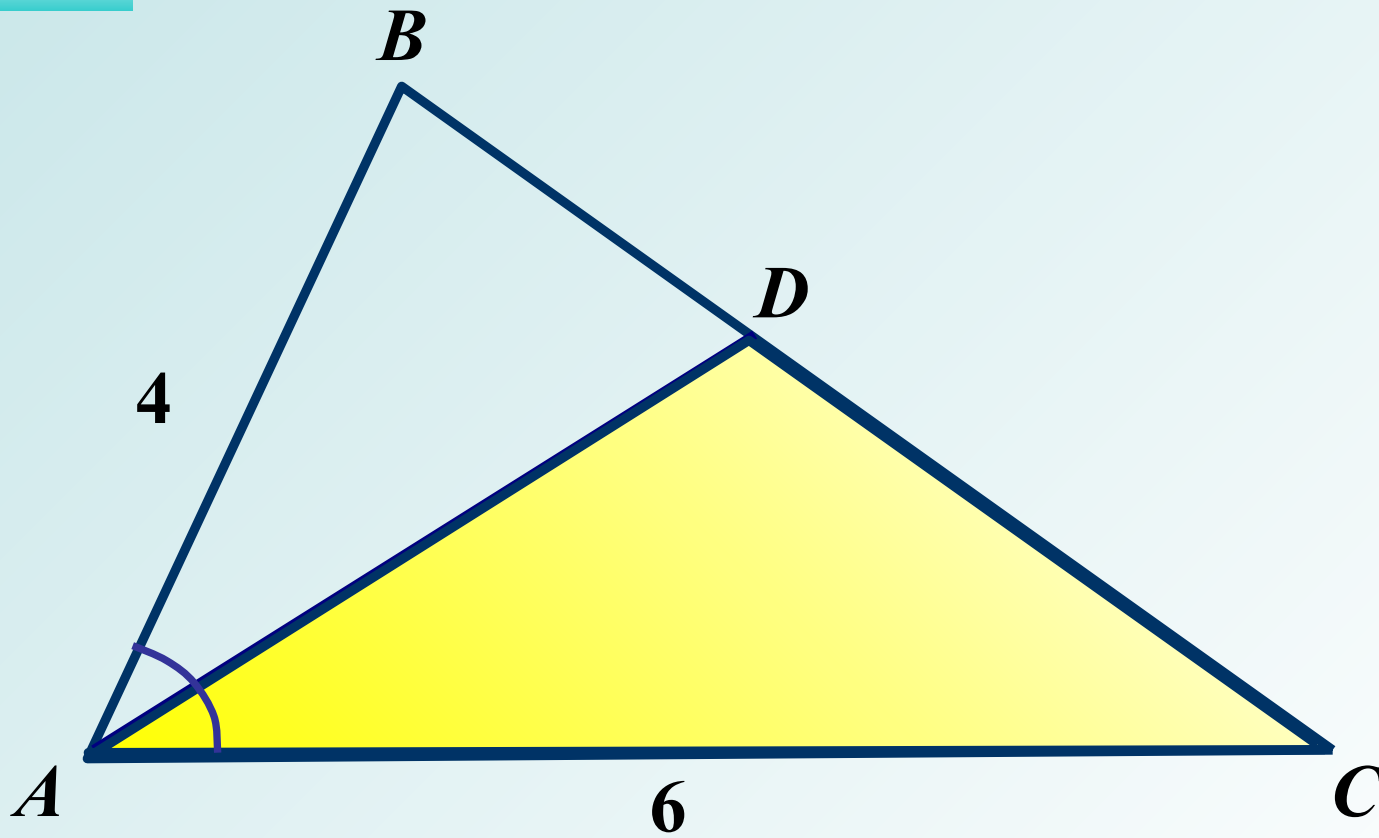


4.

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

**Найти:**

$S_{\triangle BDC}$

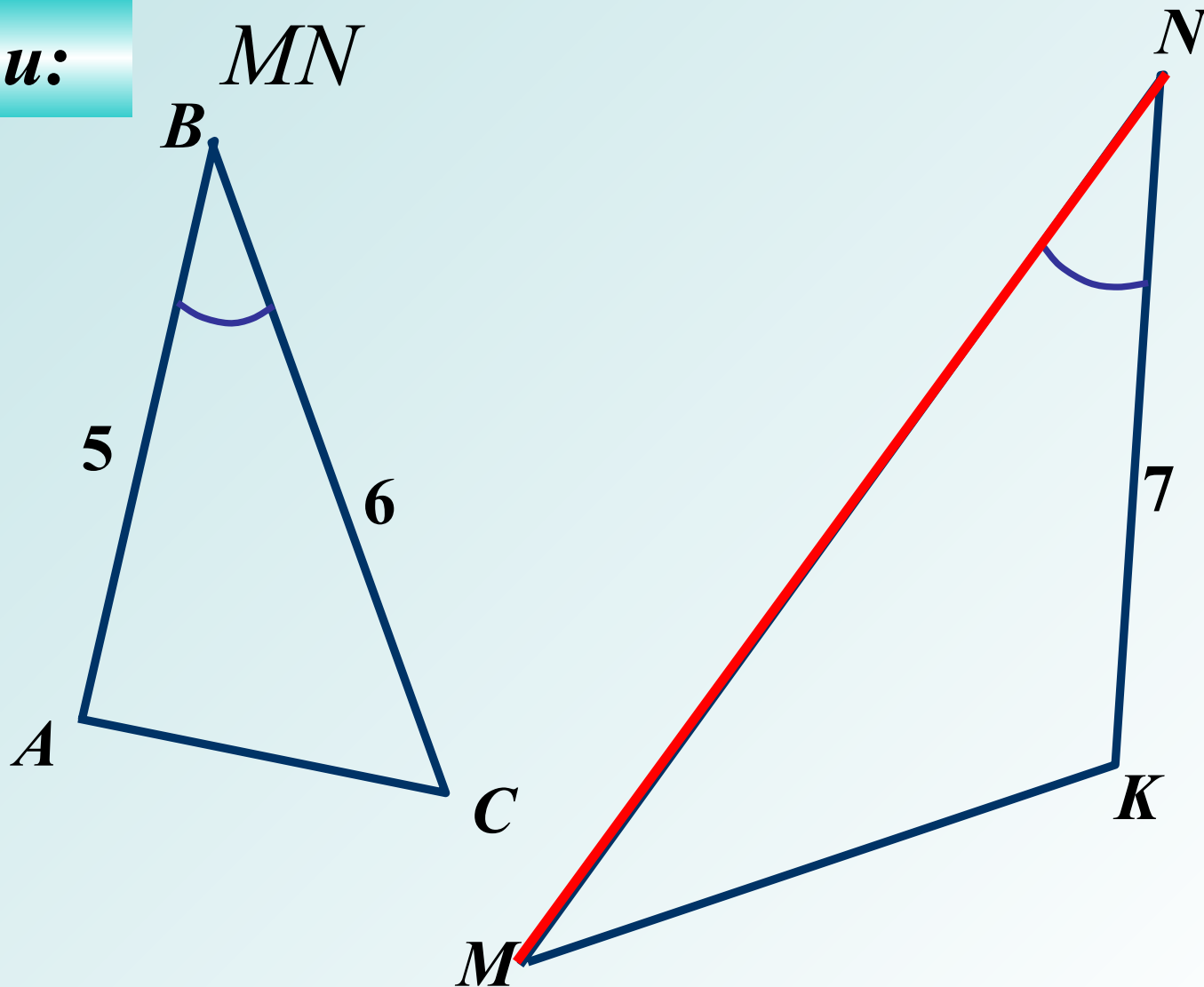


5.

*Дано:*

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

*Найти:*



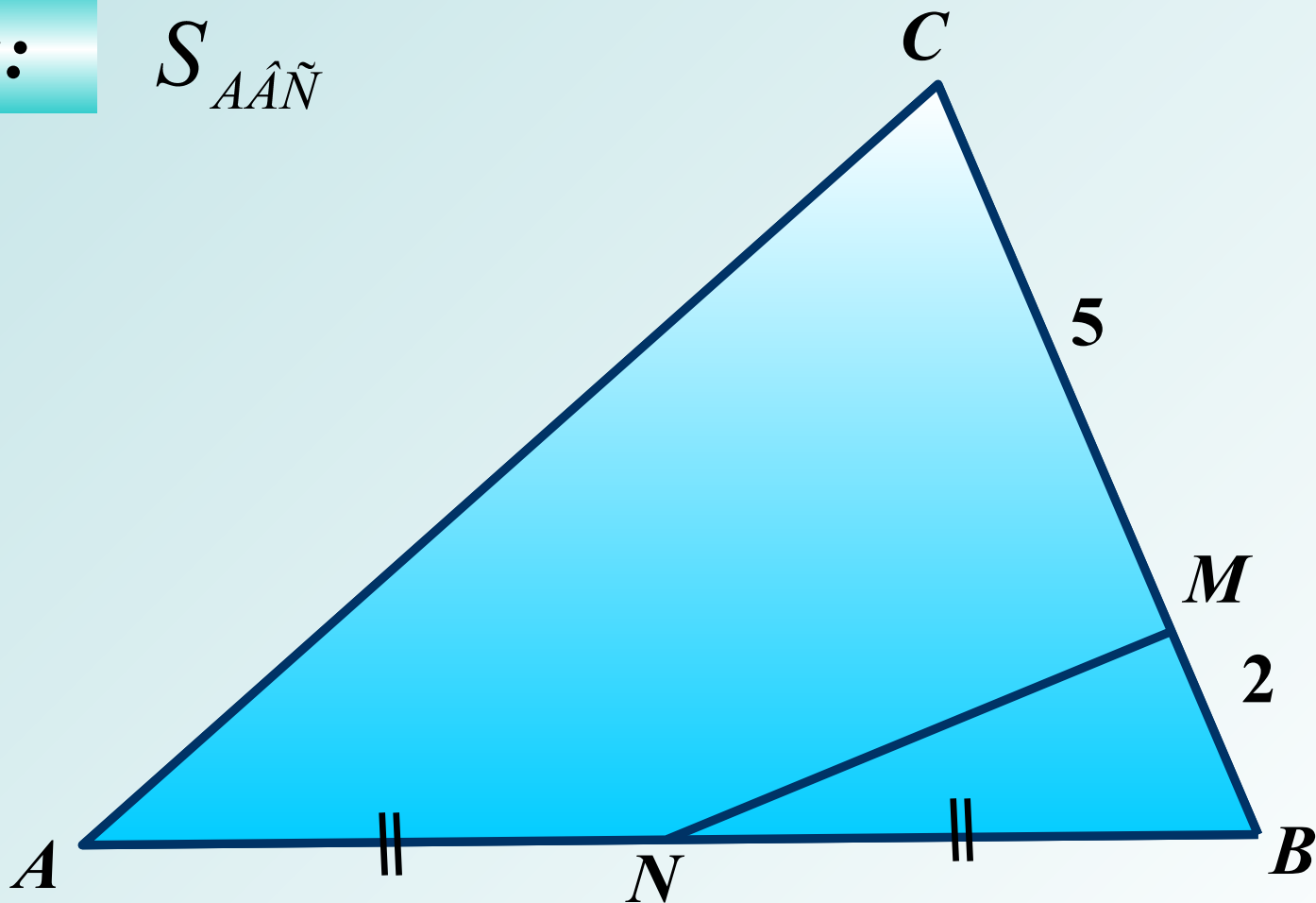
6.

*Дано:*

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

*Найти:*

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





7.

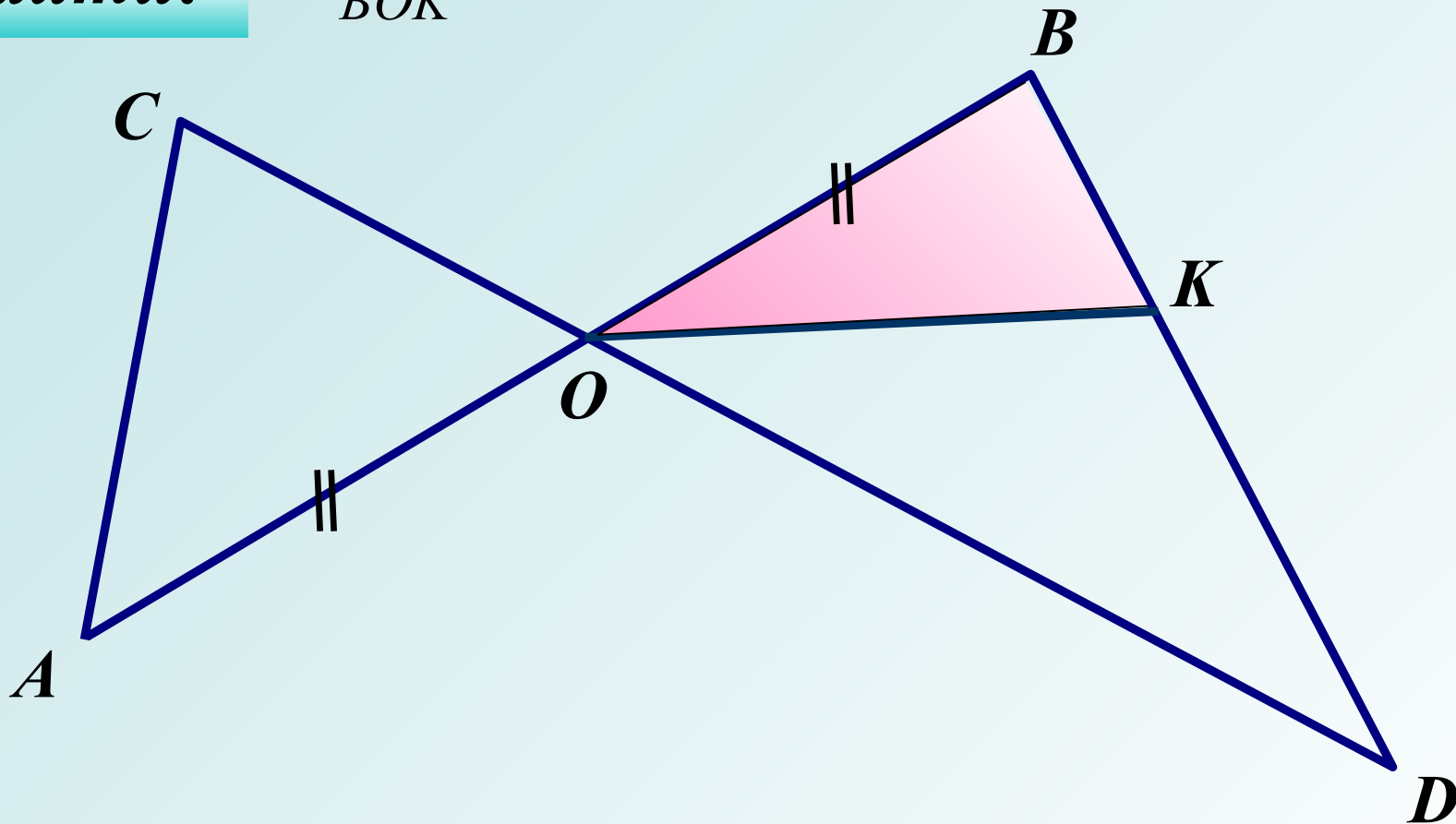
**Дано:**

$$BK : KD = 1 : 3$$

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

**Найти:**

$$S_{BOK}$$



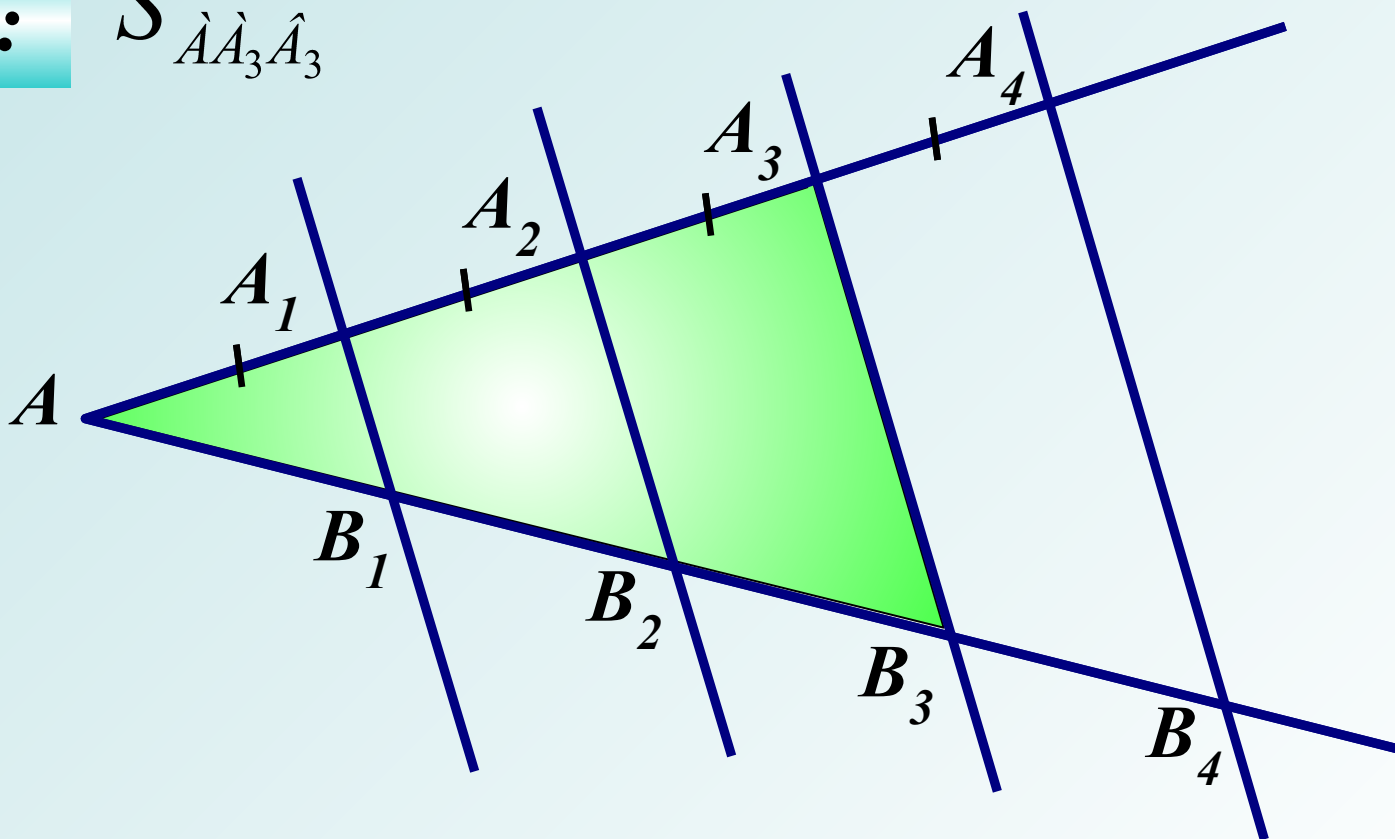
8.

**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:**

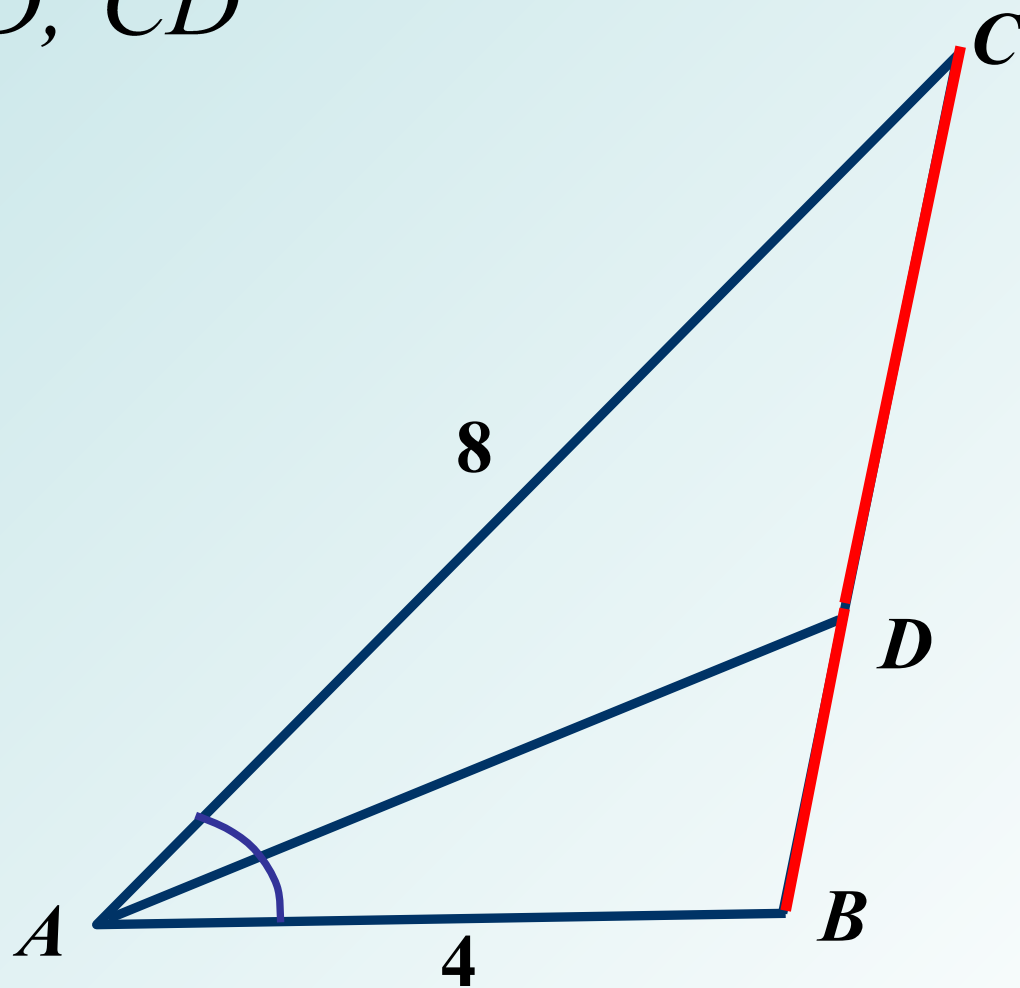
$$S_{AA_3A_3}$$



9.

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

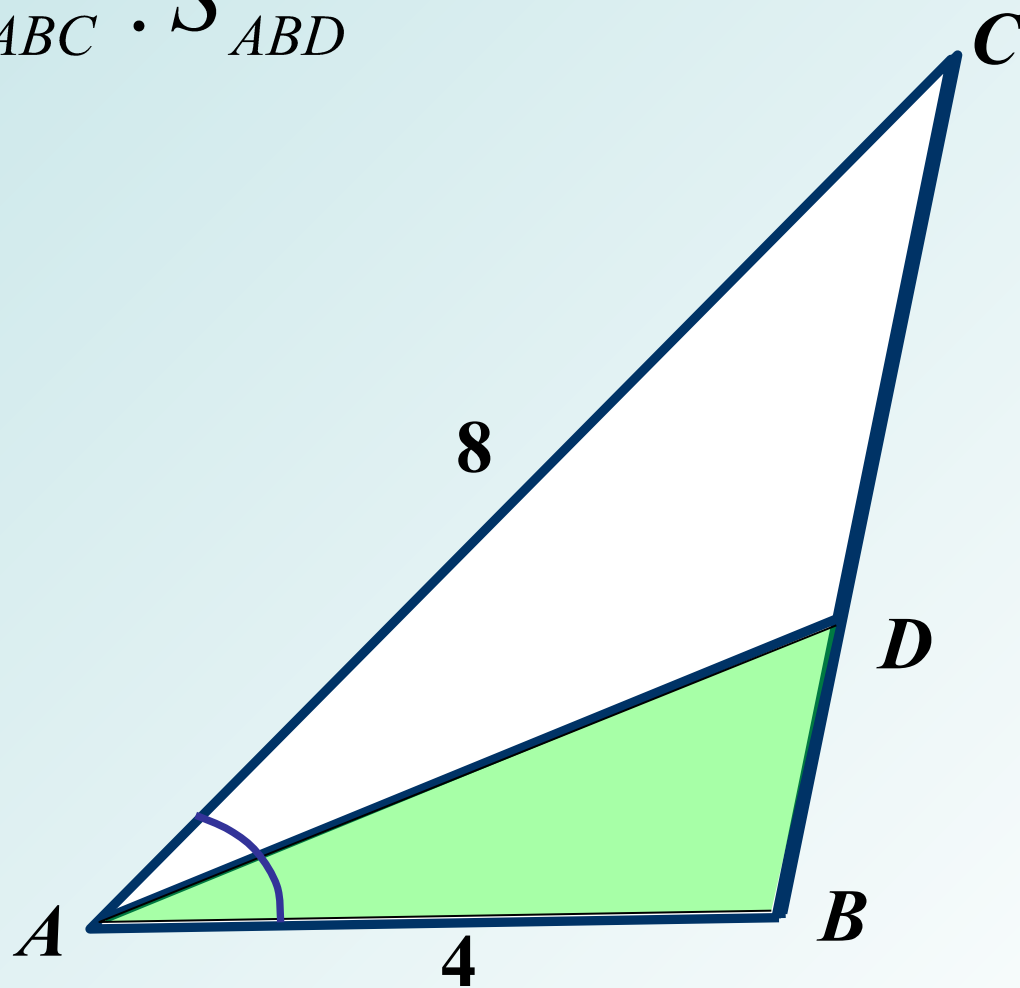
**Найти:**  $BD$ ,  $CD$



10.

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

**Найти:**  $S_{ABC} : S_{ABD}$



11.

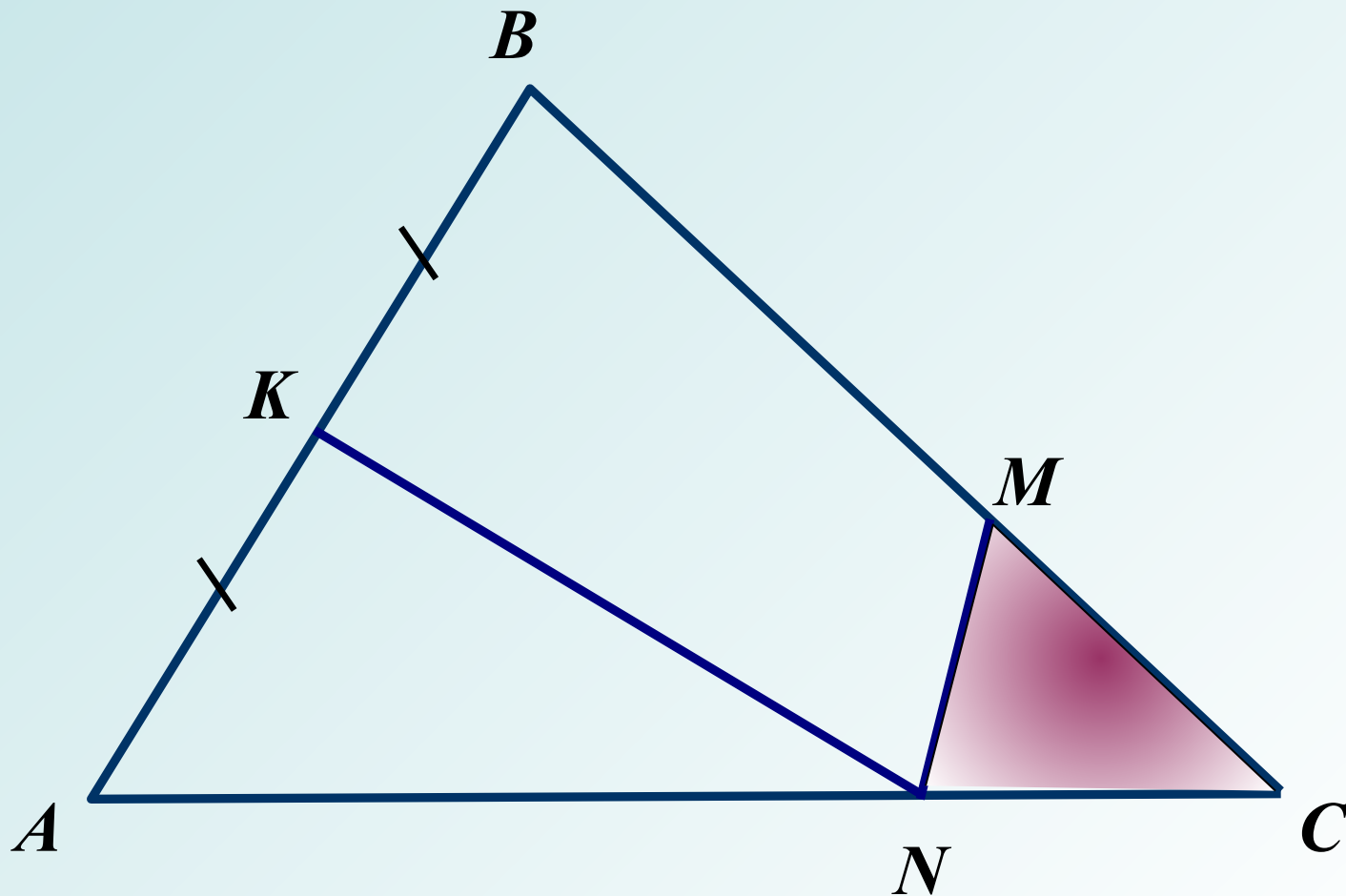
**Дано:**

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

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

**Найти:**

$$S_{\tilde{N}MN}$$



12.

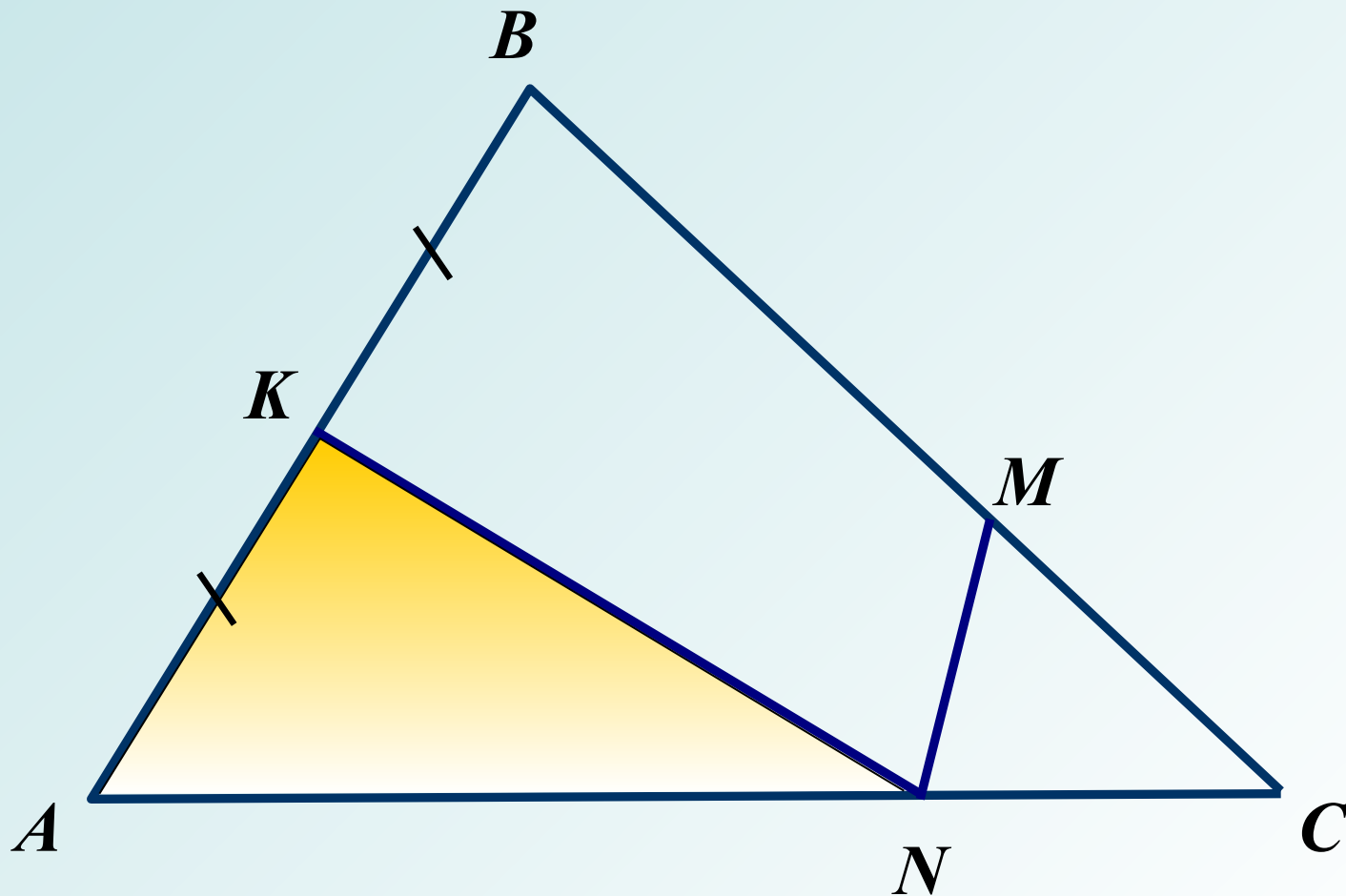
**Дано:**

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

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

**Найти:**

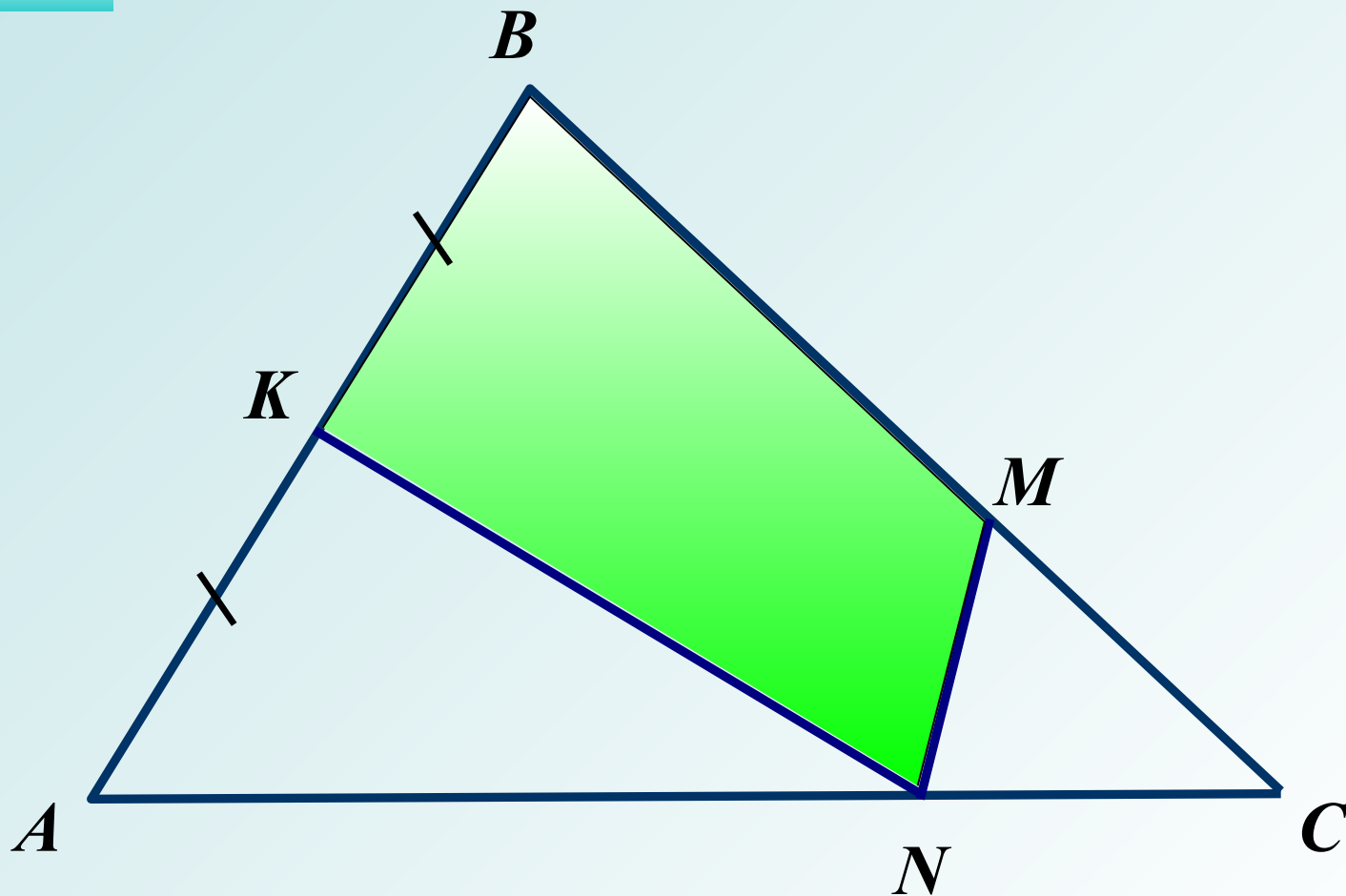
$$S_{AEN}$$



13.

**Дано:**  $S_{ABC} = 36 \text{ см}^2$ ,  $AN : NC = 3 : 1$   
 $BM : MC = 2 : 1$ ,  $AK = KB$

**Найти:**  $S_{\hat{A}ENI}$



14.

**Дано:**

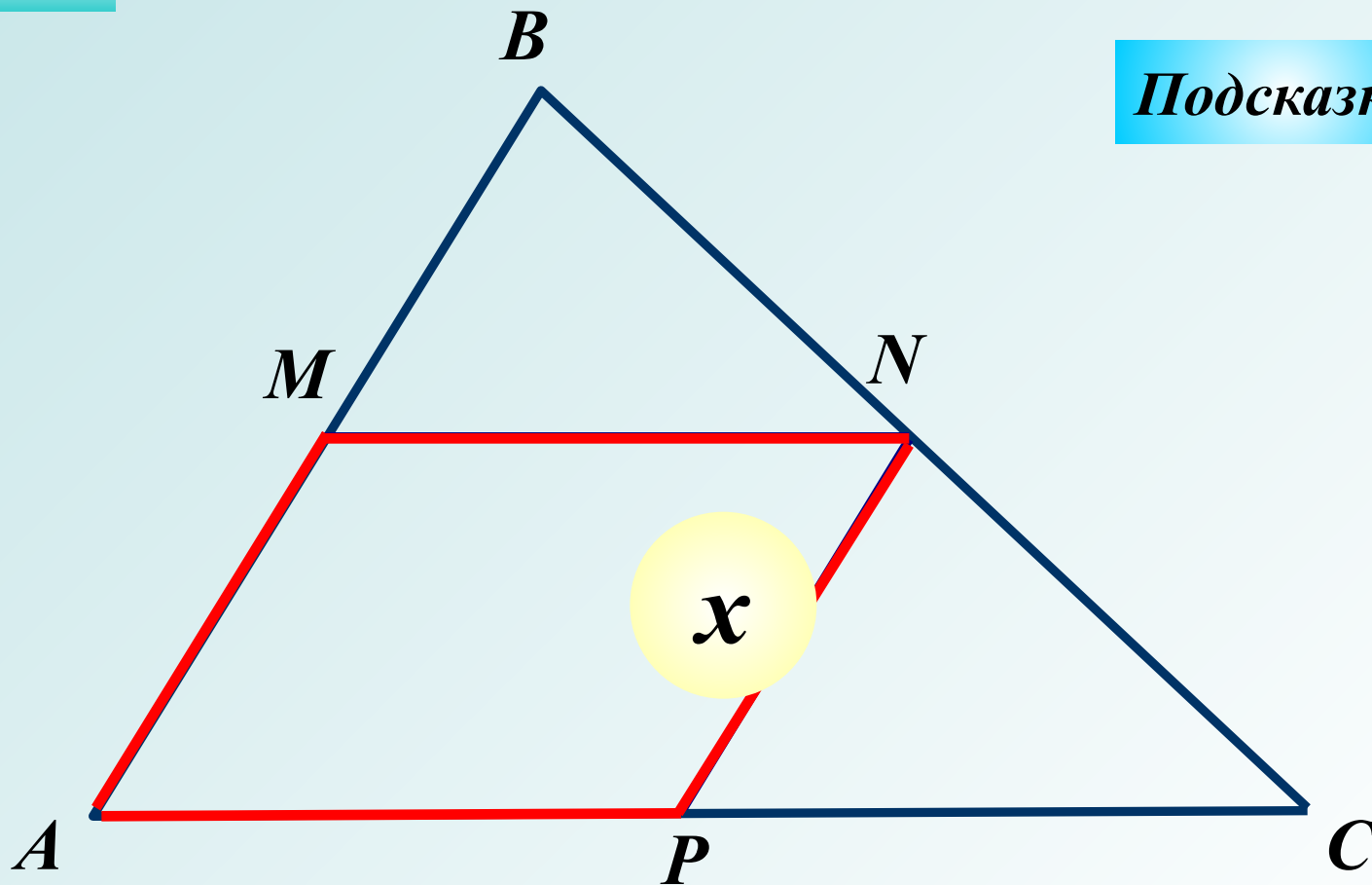
$$AB = 10 \text{ см}, AC = 15 \text{ см}$$

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

**Найти:**

$$AM, MN, NP, AP$$

**Подсказка.**





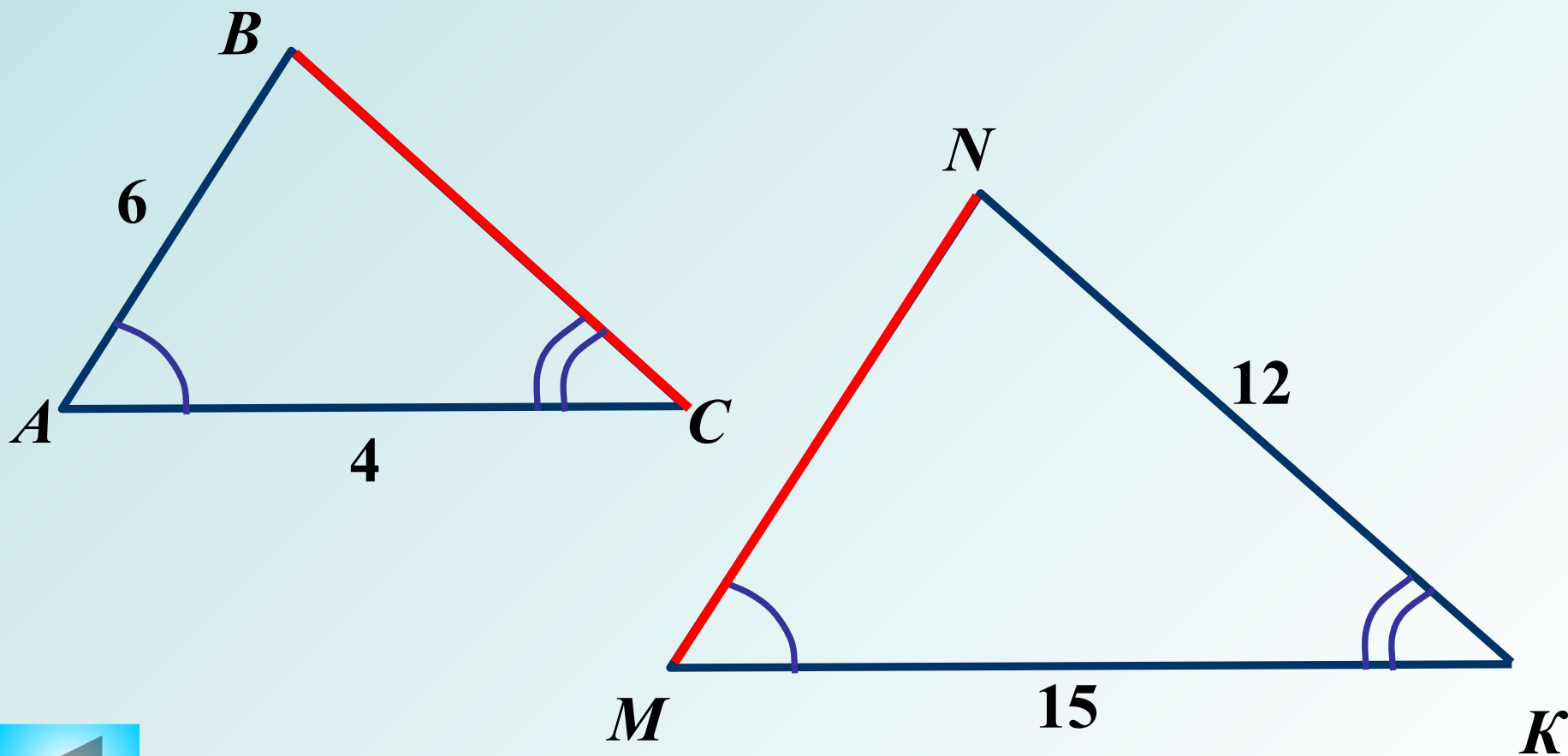
15.

*Дано:*

$\triangle ABC, \triangle MNK$

*Найти:*

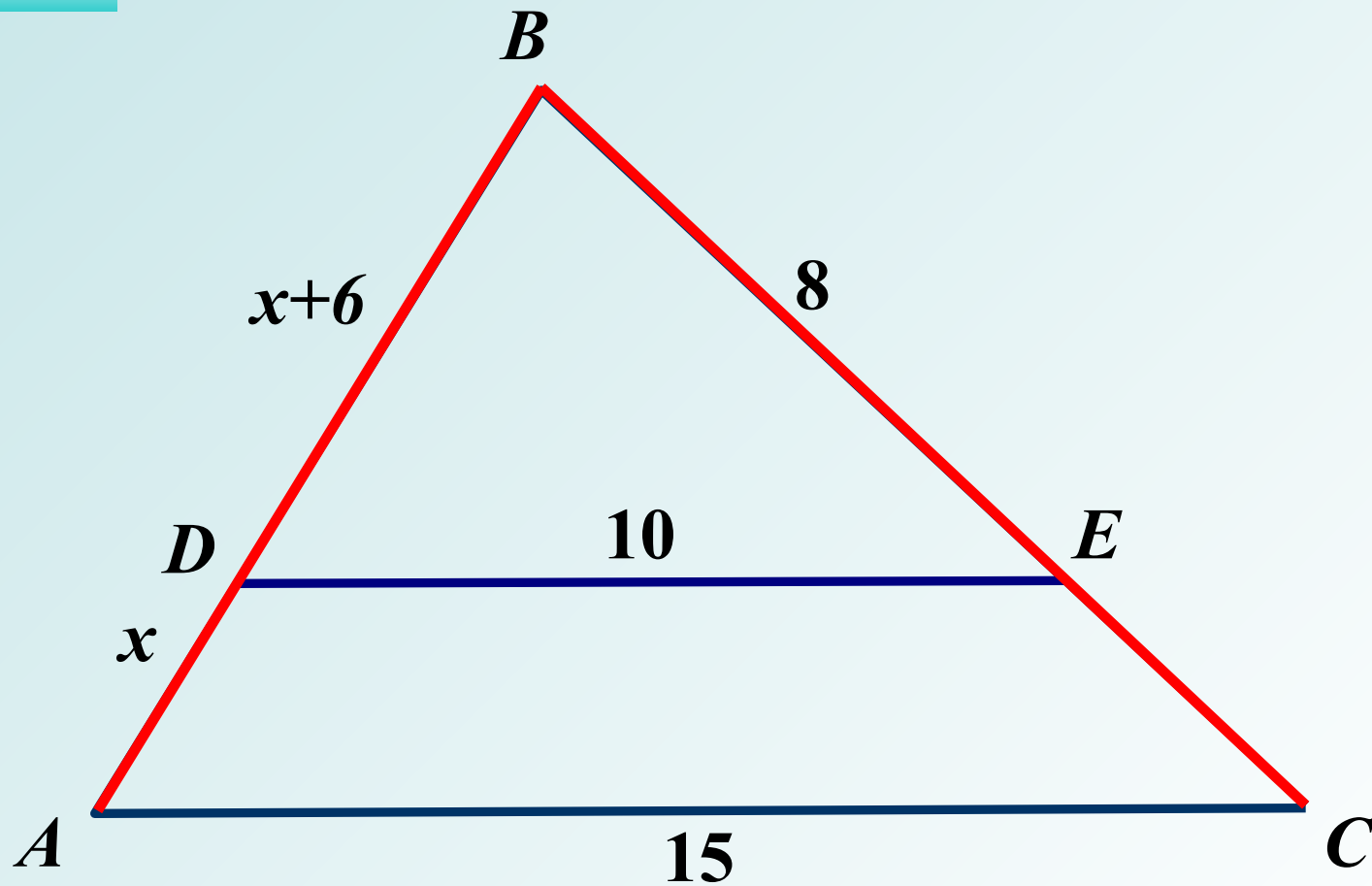
$\hat{A}\tilde{N}, MN$



16.

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

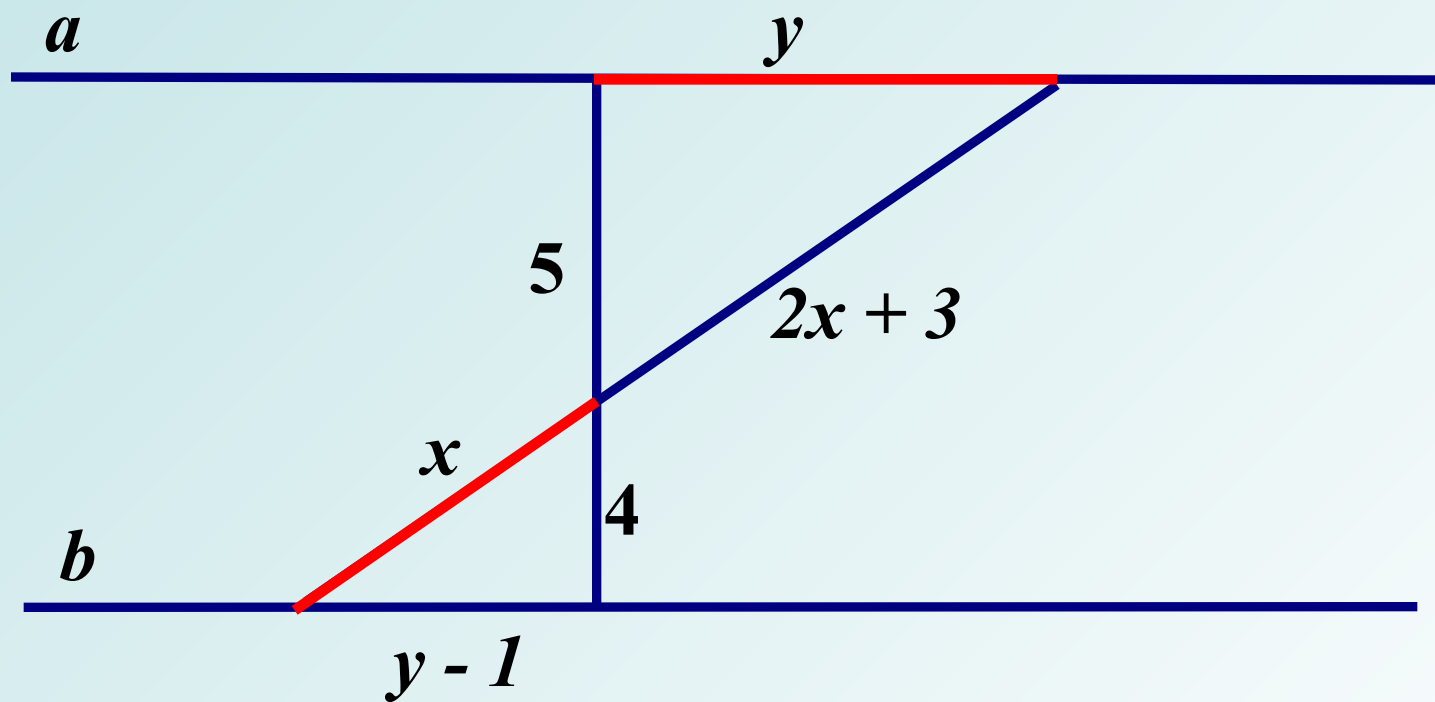
**Найти:**  $\hat{A}$ ,  $\hat{N}$



17.

Дано:  $a \parallel b$

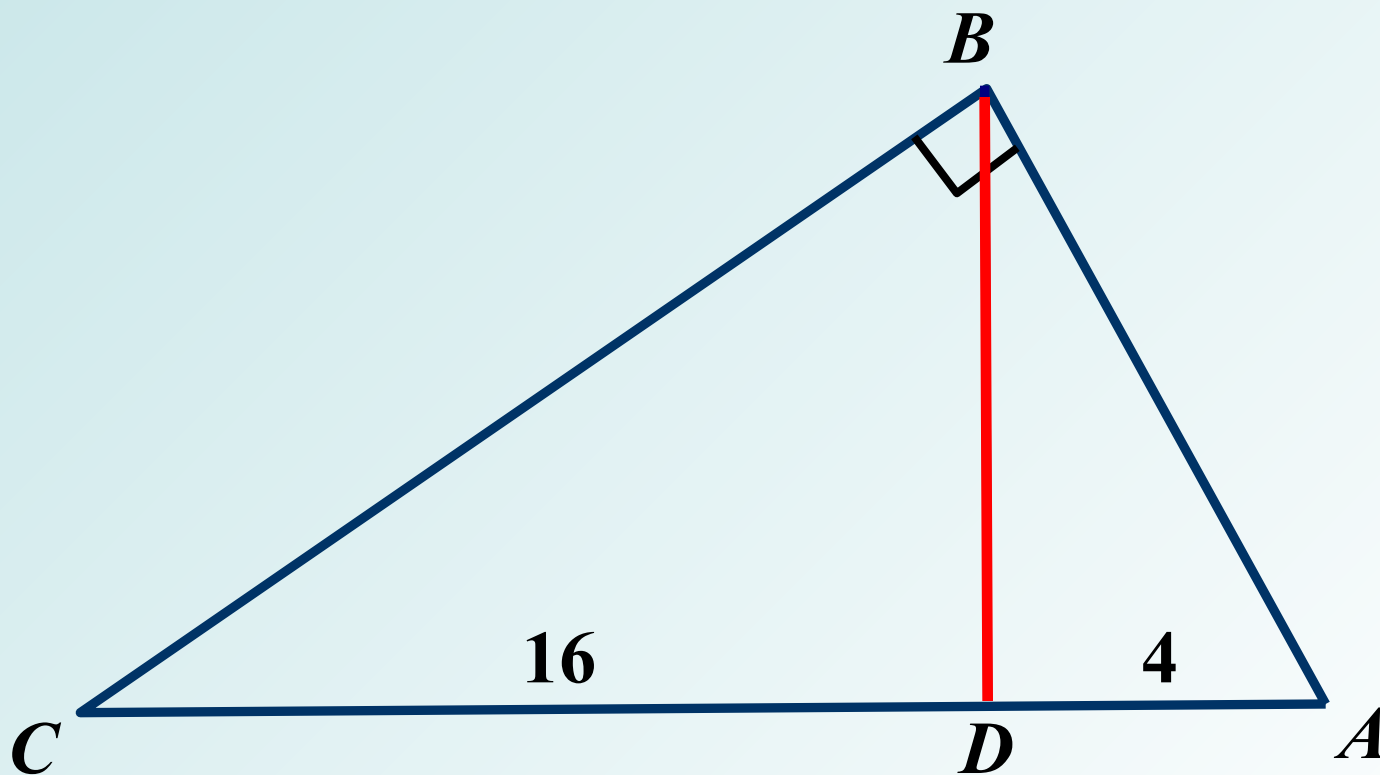
Найти:  $\tilde{\alpha}$ ,  $\acute{\alpha}$



18.

Дано:  $\triangle ABC$

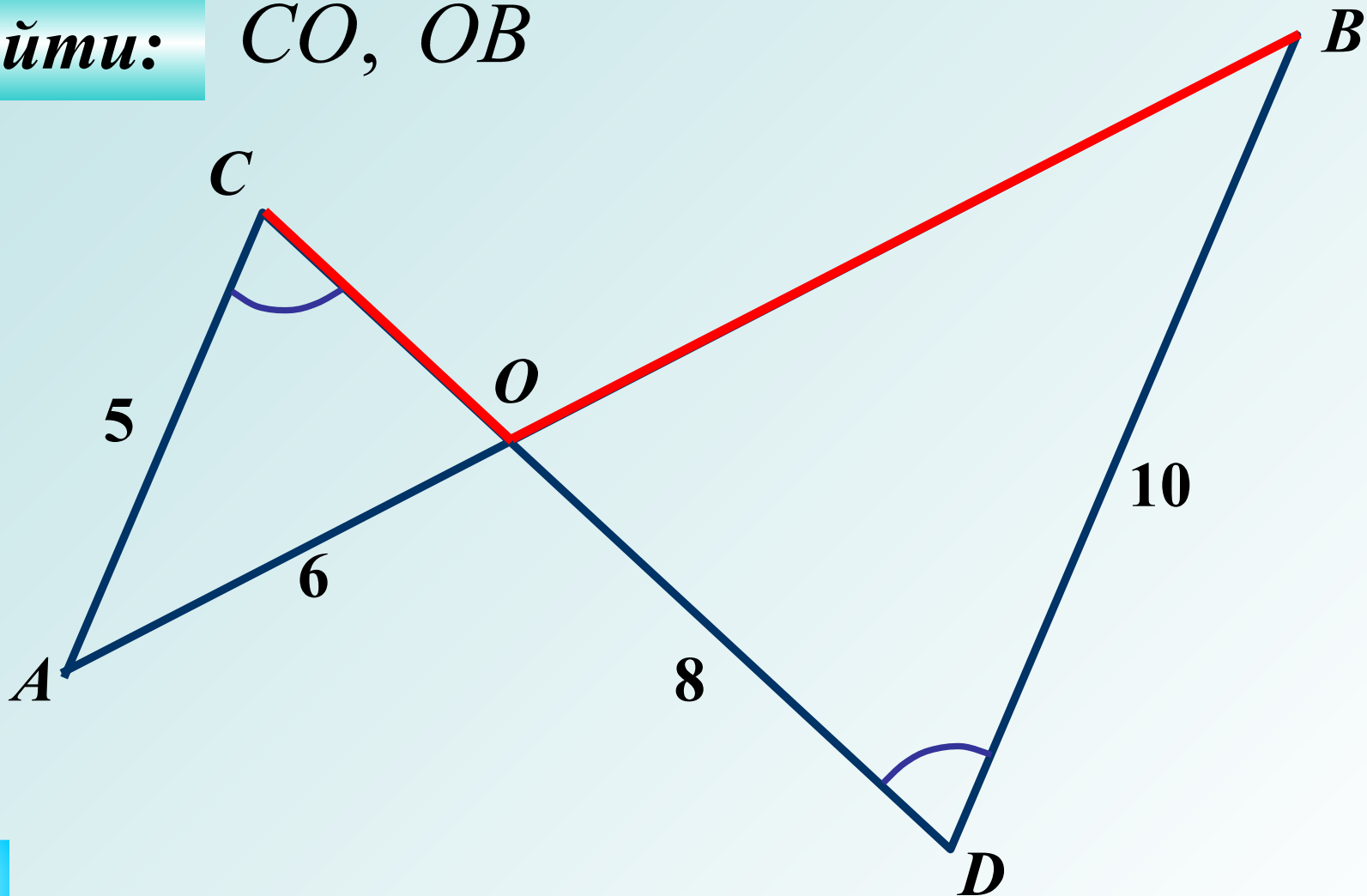
Найти:  $BD$



19.

Дано:  $AC \parallel BD$

Найти:  $CO, OB$



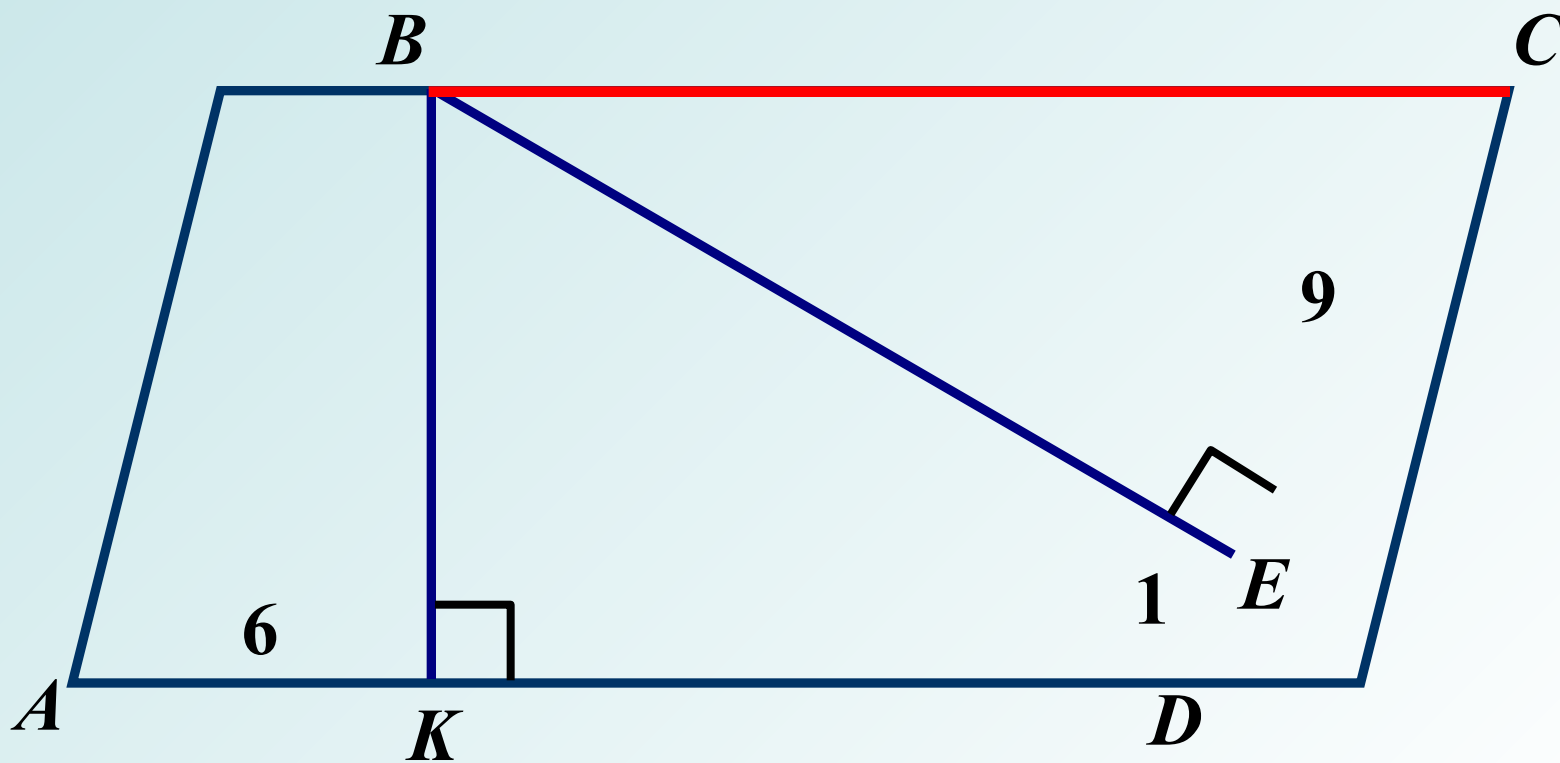
20.

Дано:

$ABCD$  – трапеция

Найти:

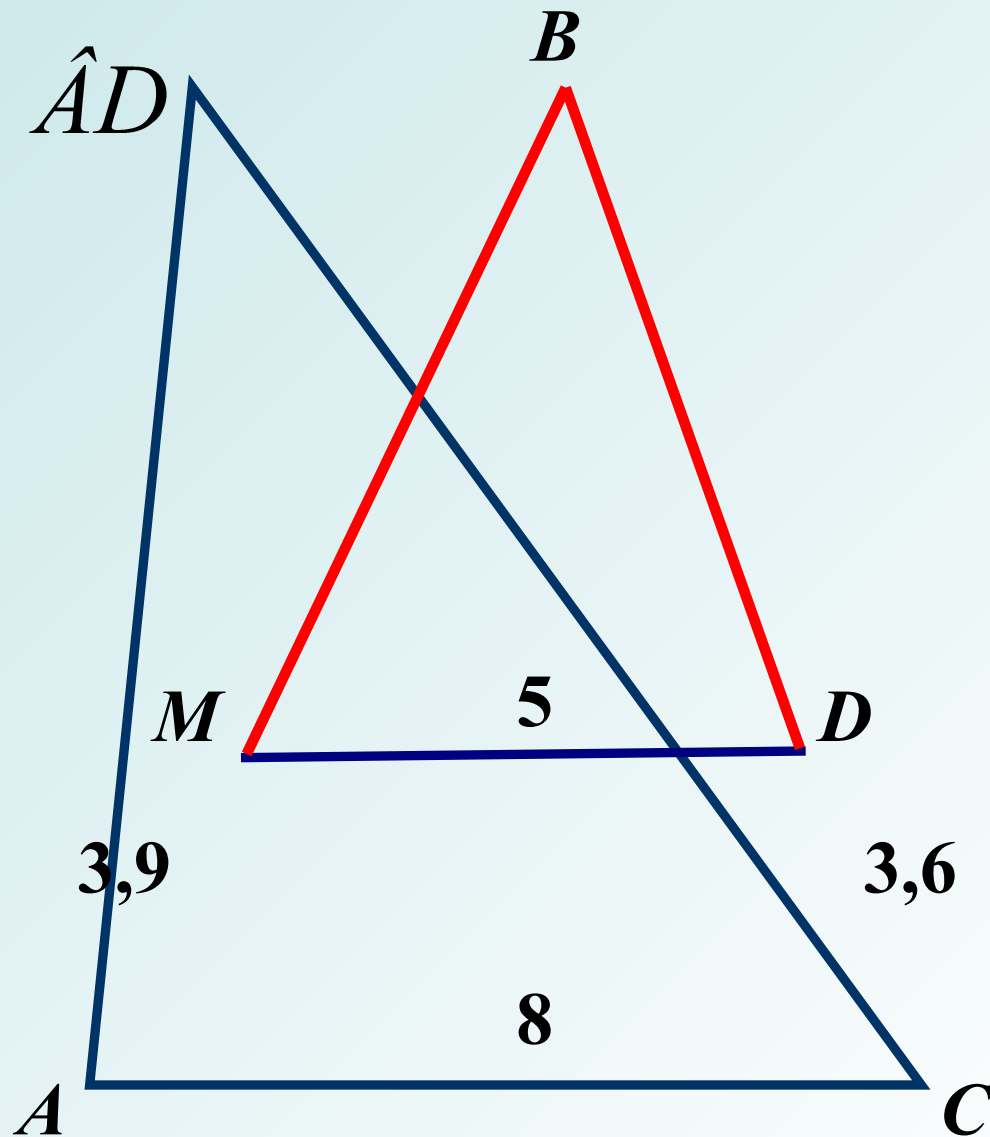
$\hat{A}\tilde{N}$



21.

Дано:  $\triangle ADC$  –  $\text{равнобедренный}$

Найти:  $\angle M$ ,  $\angle D$



22.

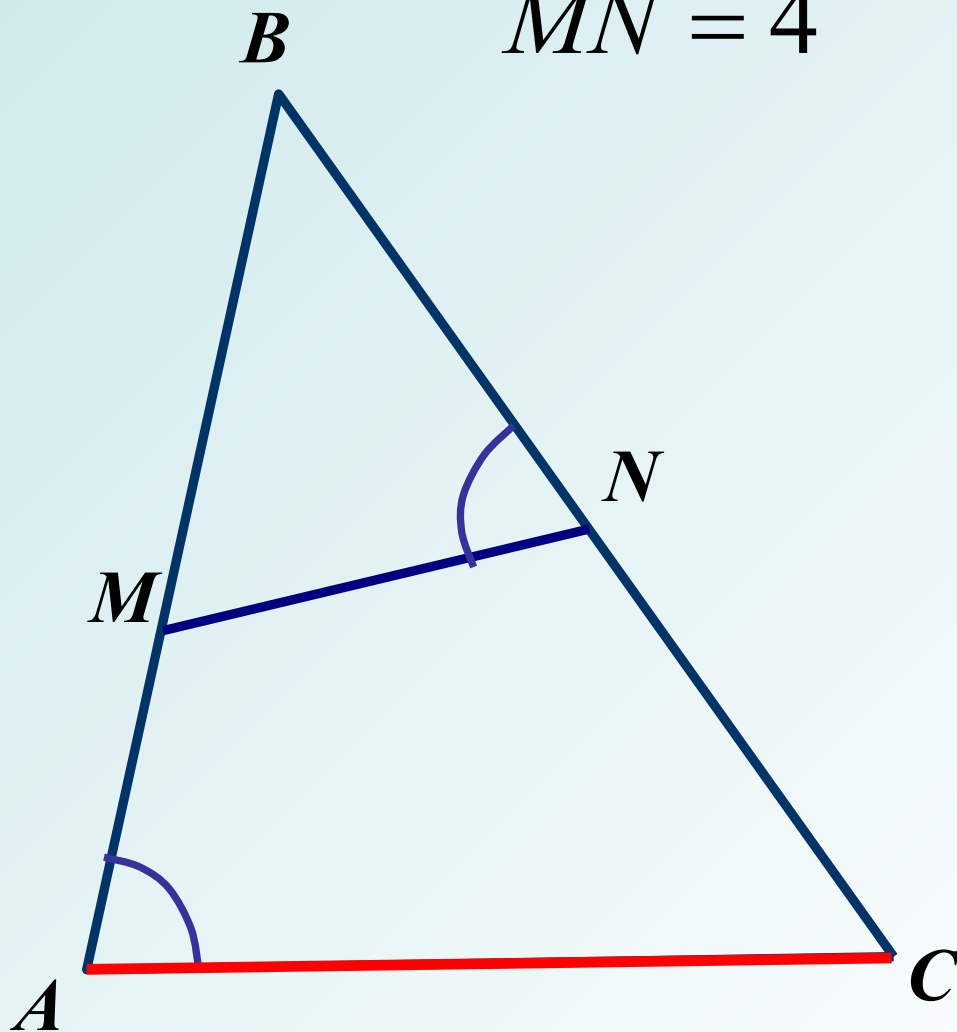
**Дано:**

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

$MN = 4$

**Найти:**

$AC$





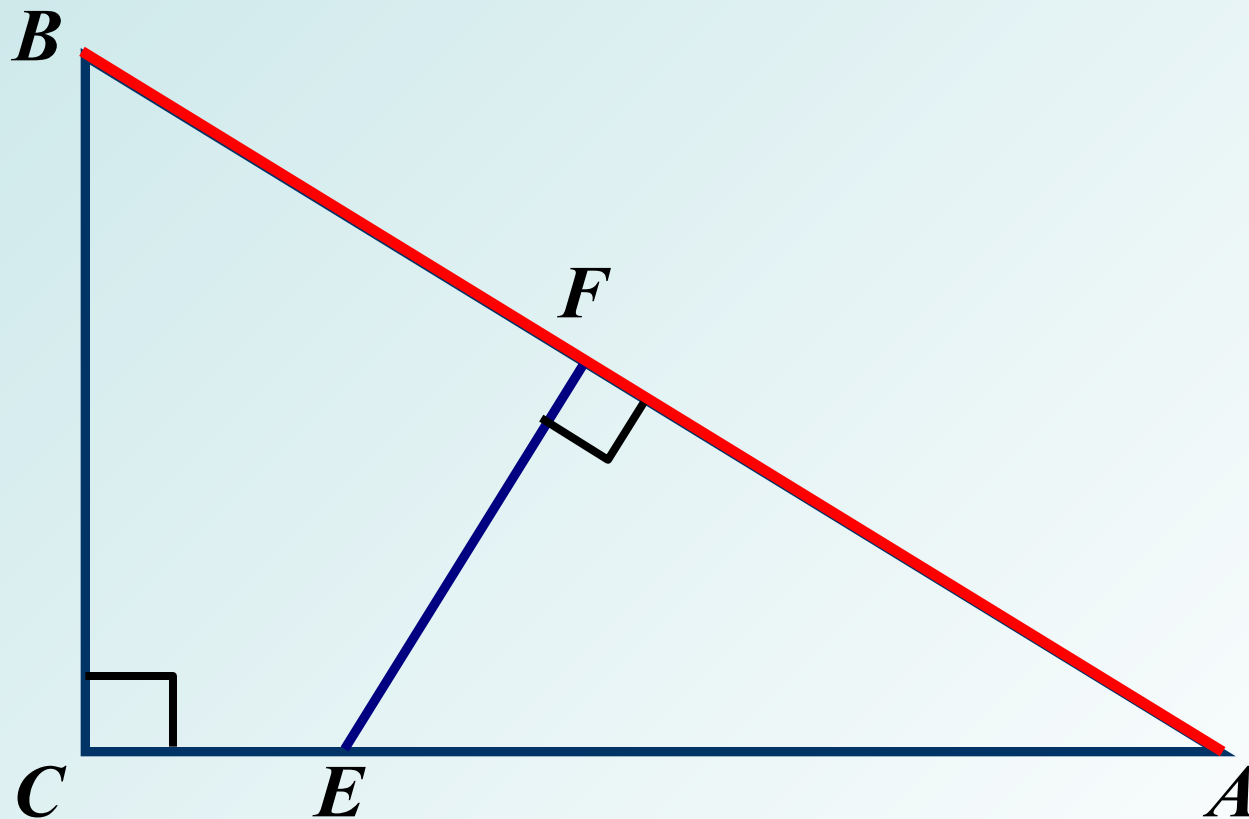
23.

**Дано:**

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

**Найти:**

$AB$



24.

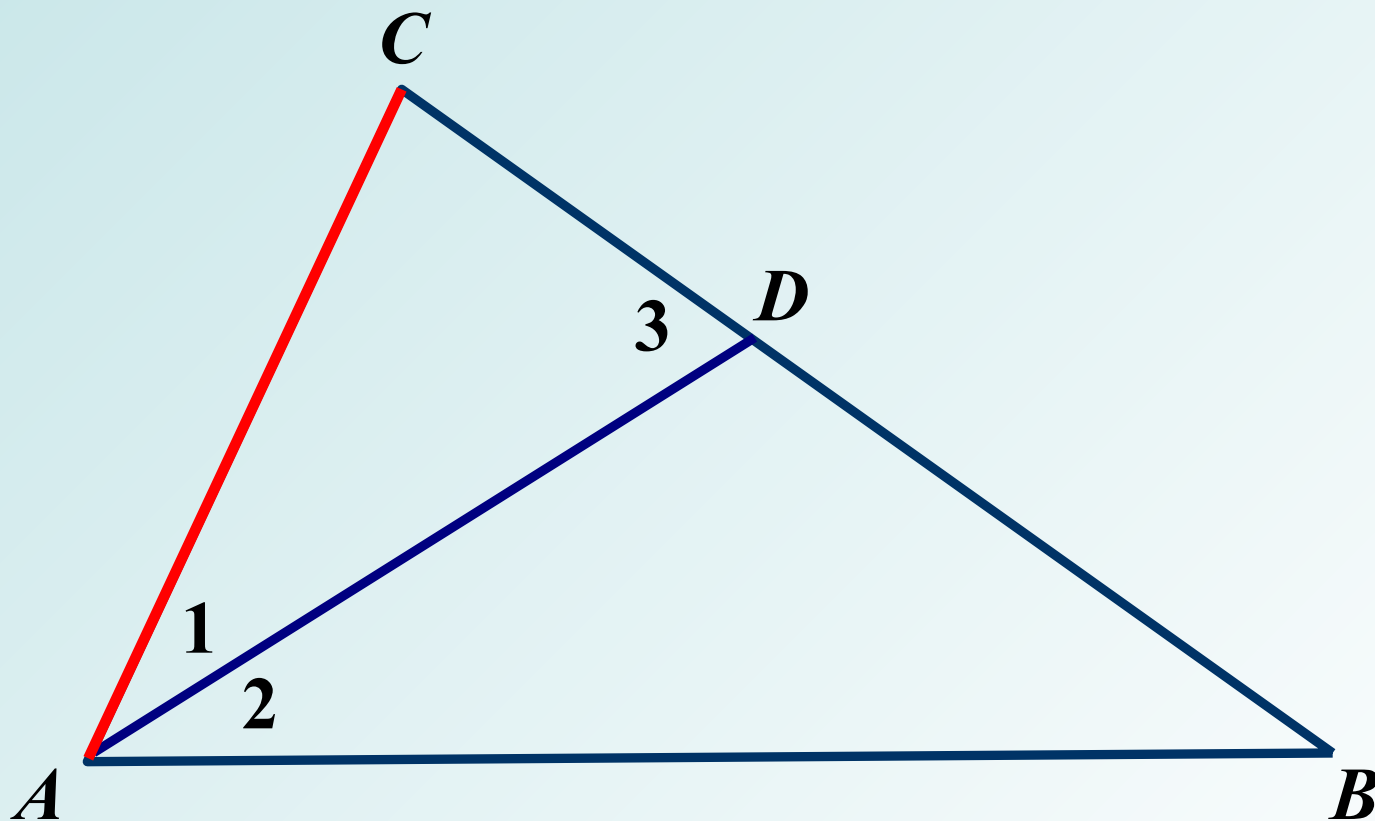
*Дано:*

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

$$CD = 4, BC = 9$$

*Найти:*

$AC$



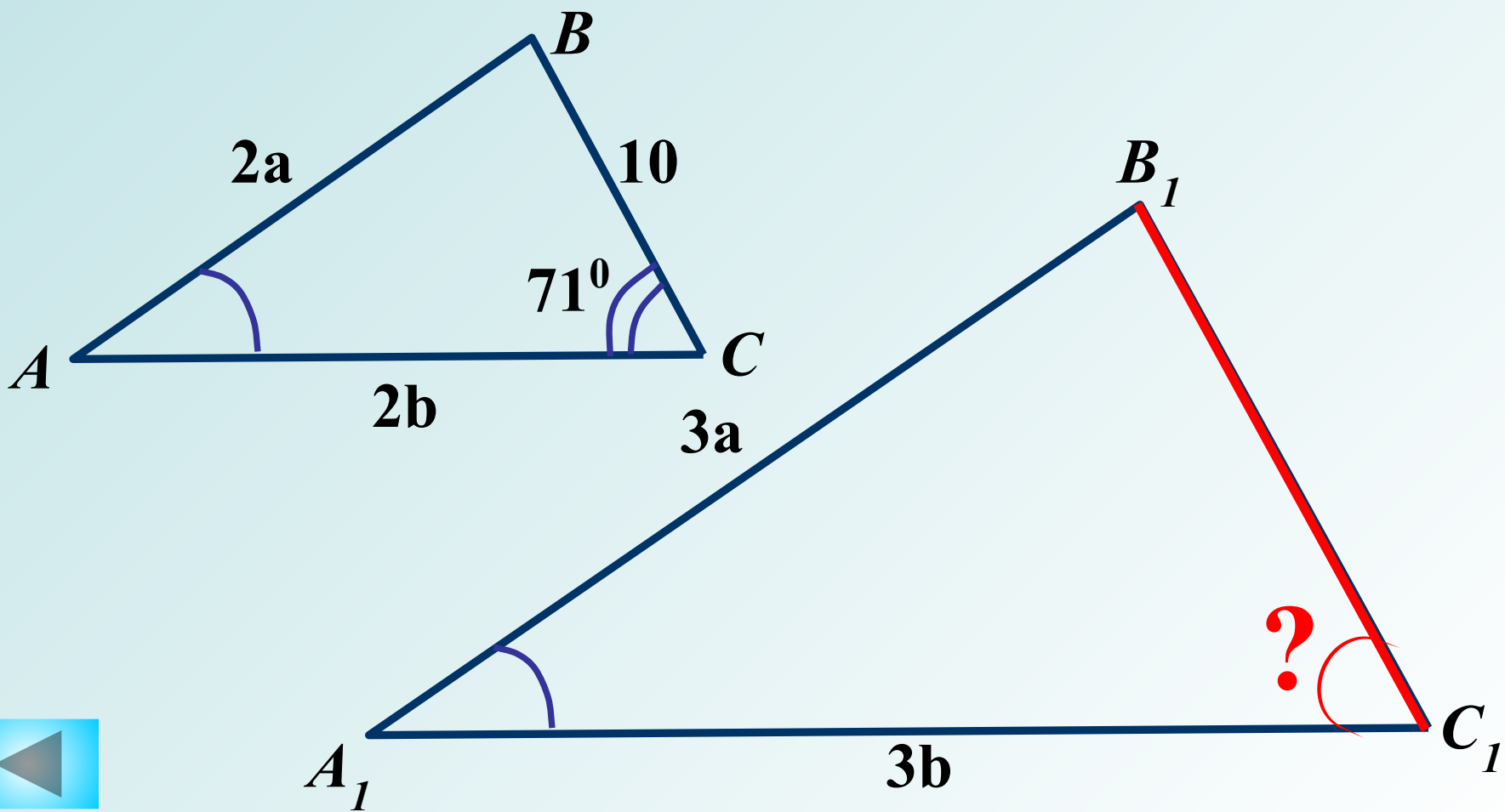
25.

*Дано:*

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

*Найти:*

$\angle C_1, B_1C_1$



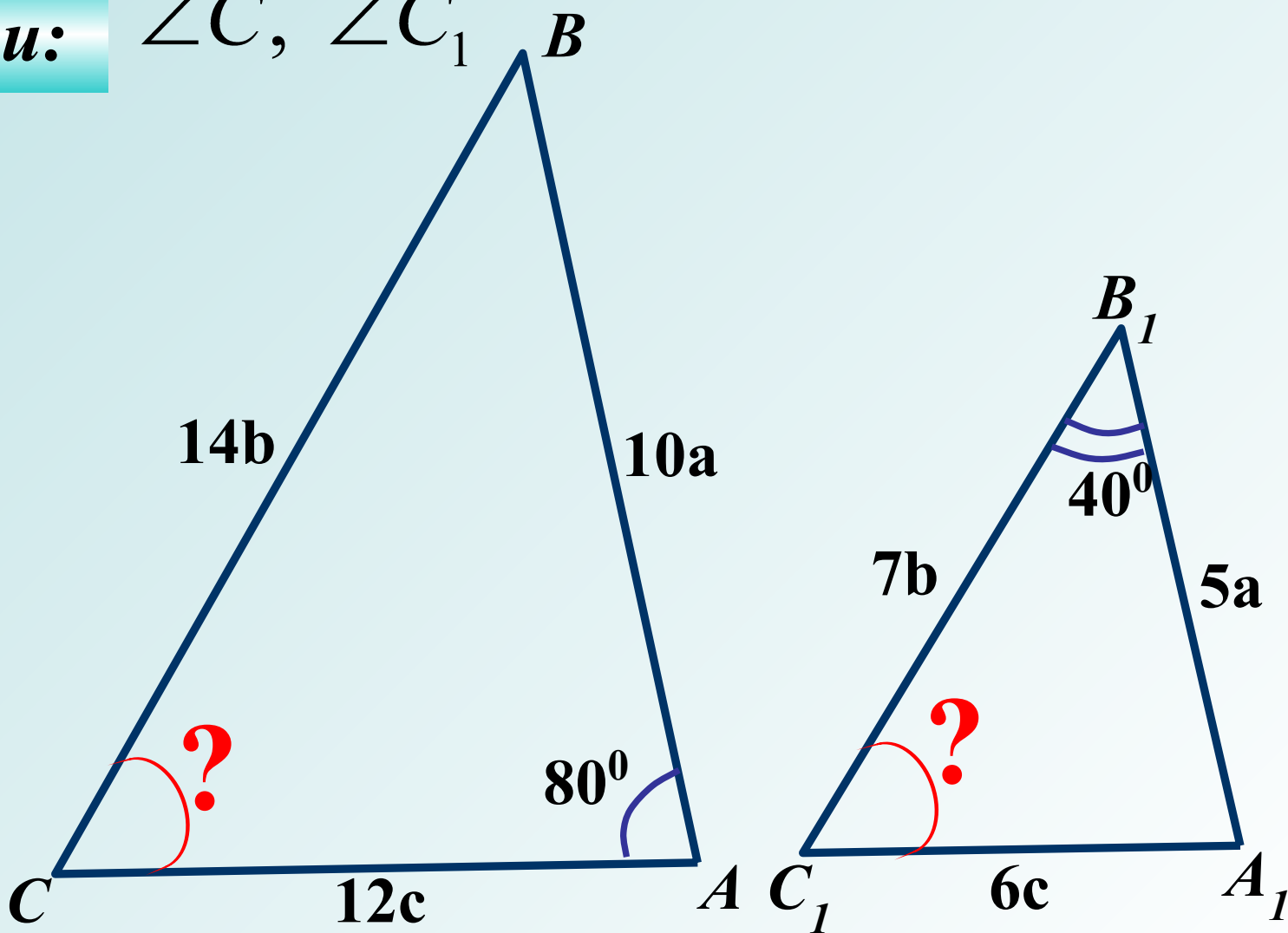
26.

*Дано:*

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

*Найти:*

$\angle C, \angle C_1$



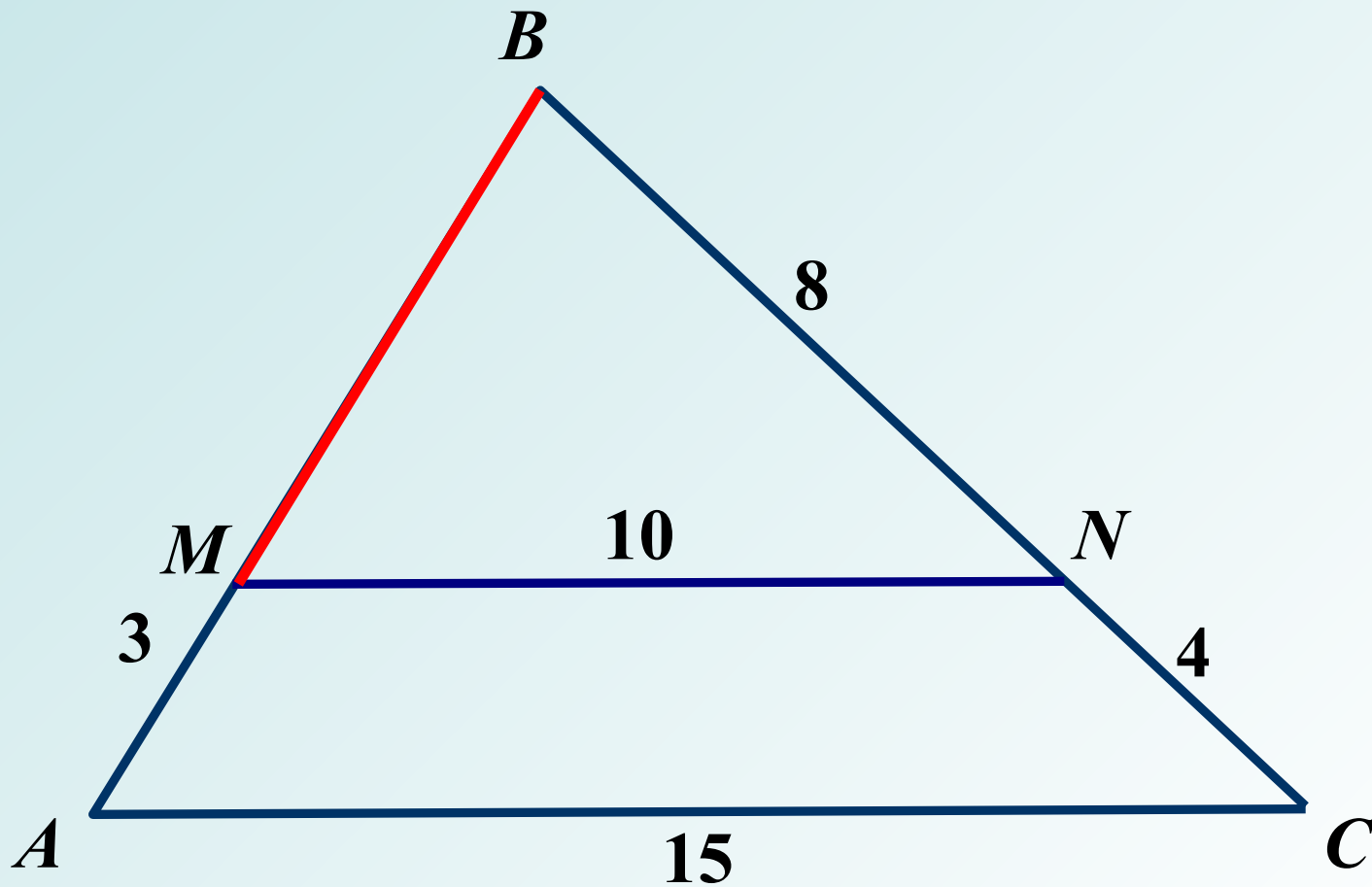
27.

*Дано:*

$\triangle ABC$ ,  $\triangle MBN$

*Найти:*

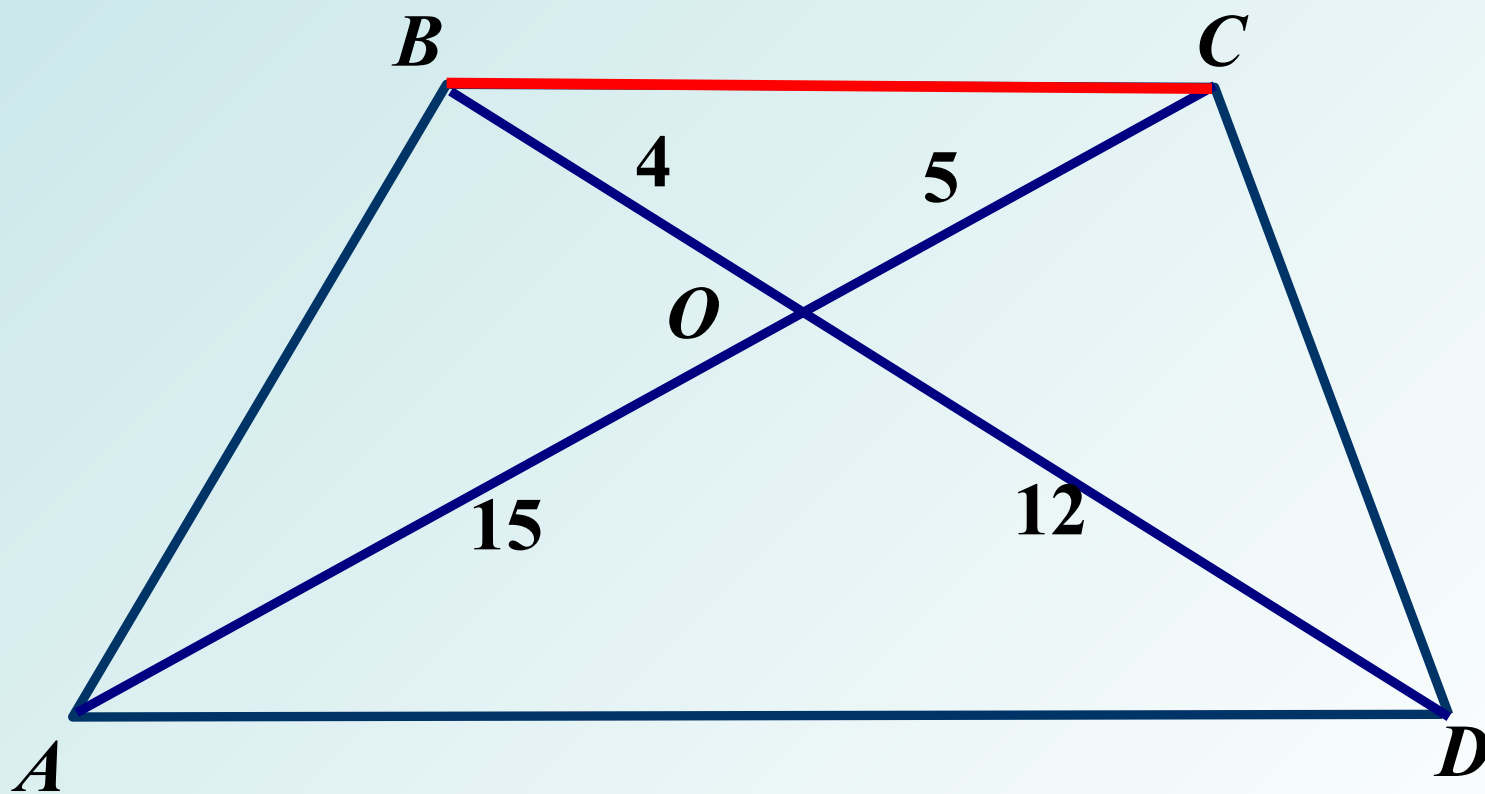
$BM$



28.

Дано:  $ABCD$  – о́дàïáöèÿ

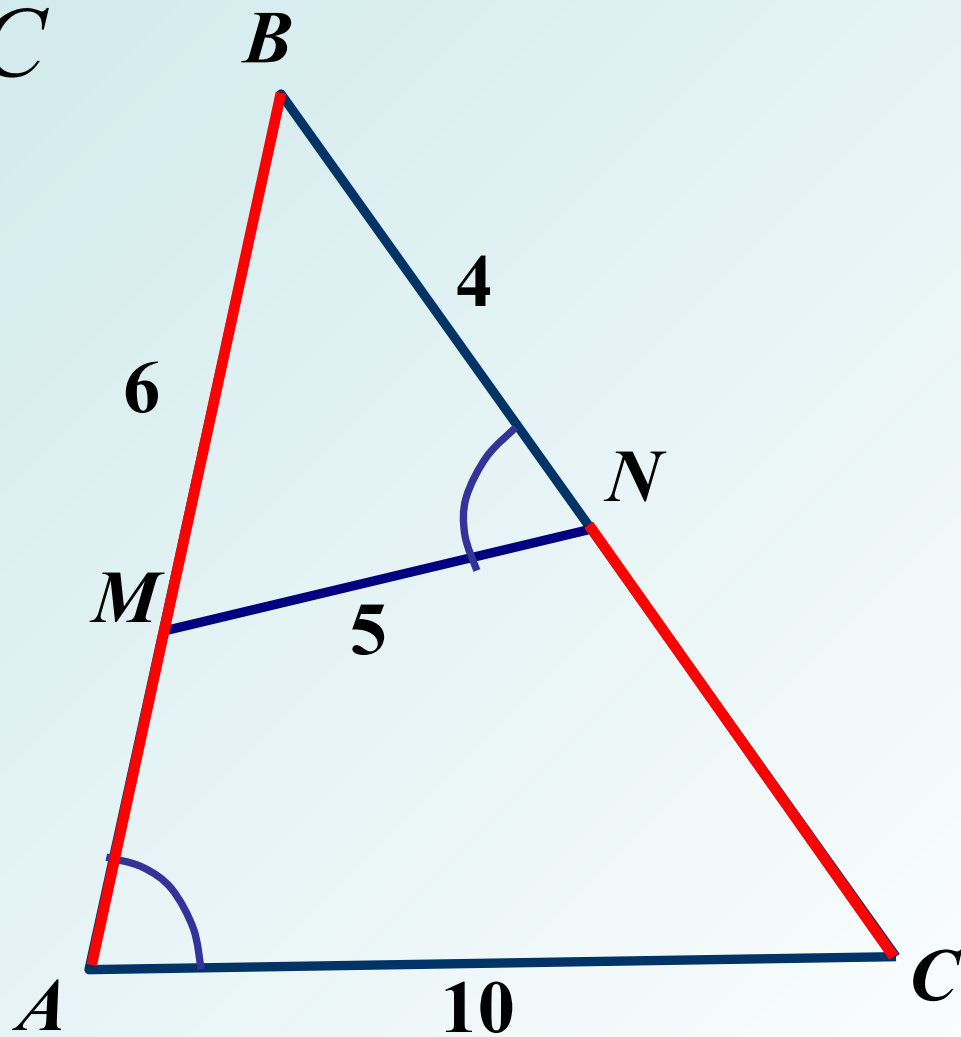
Найти:  $BC$



29.

Дано:  $\triangle ABC$

Найти:  $AB, NC$



30.

**Дано:**

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

**Найти:**

$AC$

