

*Задачи*

*на ГОТОВЫХ чертежах*

# Параллельные прямые

**1**

*Свойства параллельных прямых*

**2**

*Признаки параллельных прямых*

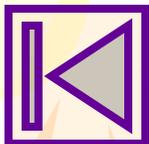
**3**

*Комбинированные задачи*

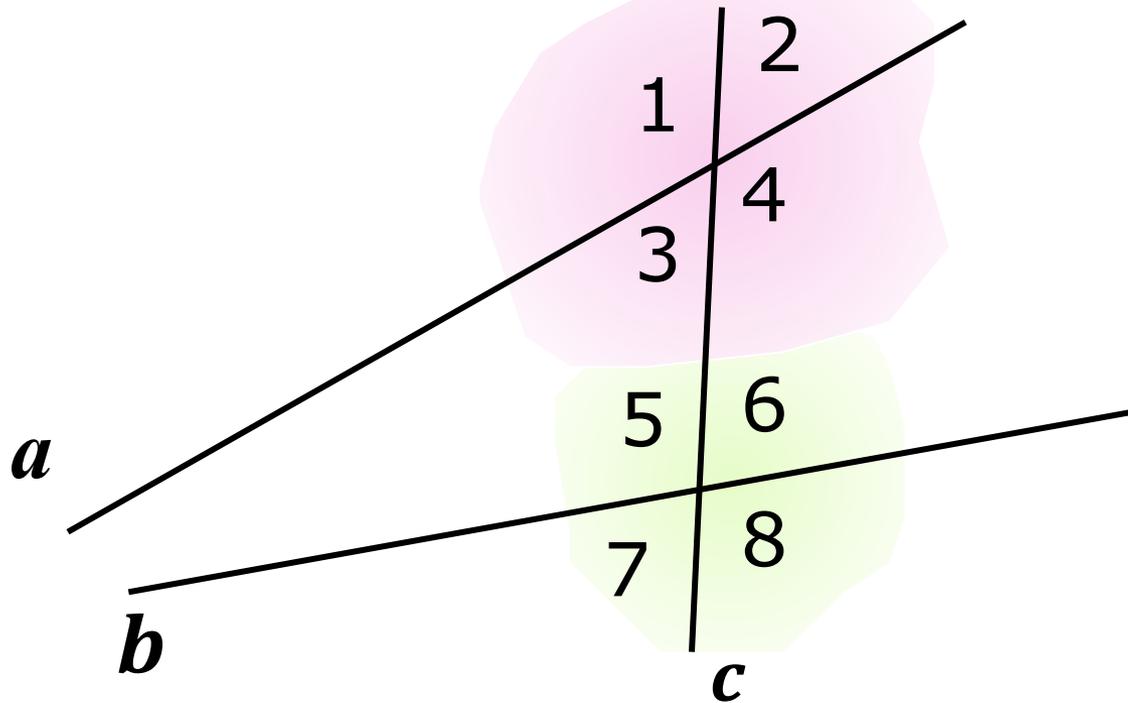
**Литература**

# Свойства параллельных прямых

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23					



## Задача 1

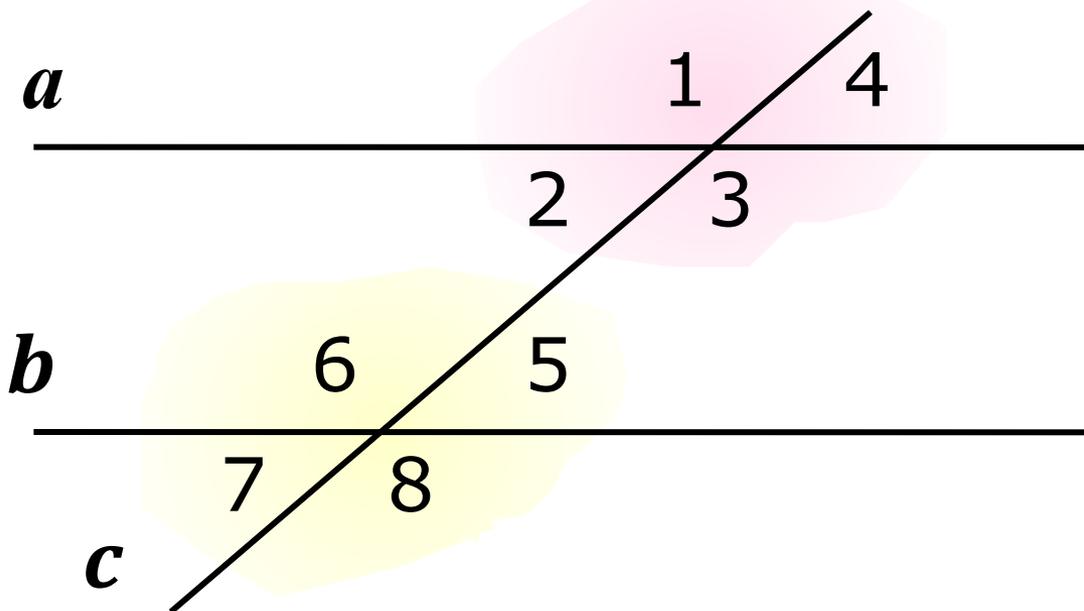


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Назовите  
односторонние,  
накрест лежащие,  
соответственные  
УГЛЫ.



## Задача 2



$a \parallel b$ ,  $c$ -секущая

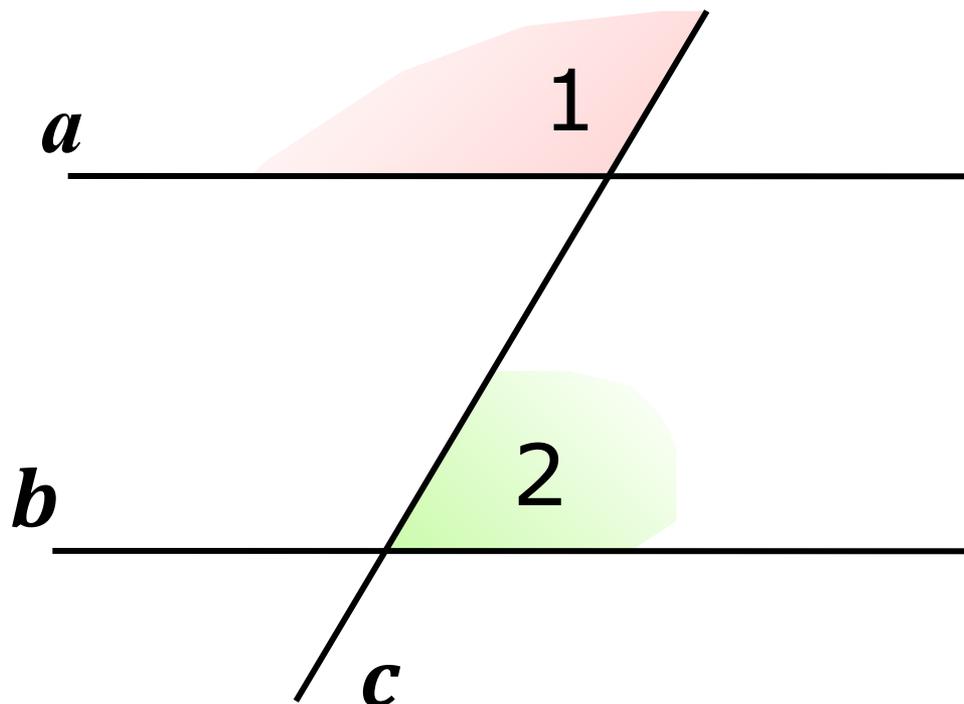
$$\angle 1 = 58^{\circ}$$

$\angle 1, \angle 3, \angle 4,$

$\angle 5, \angle 6, \angle 7, \angle 9$



*Задача 3*



$a \parallel b$ ,  $c$ -секущая

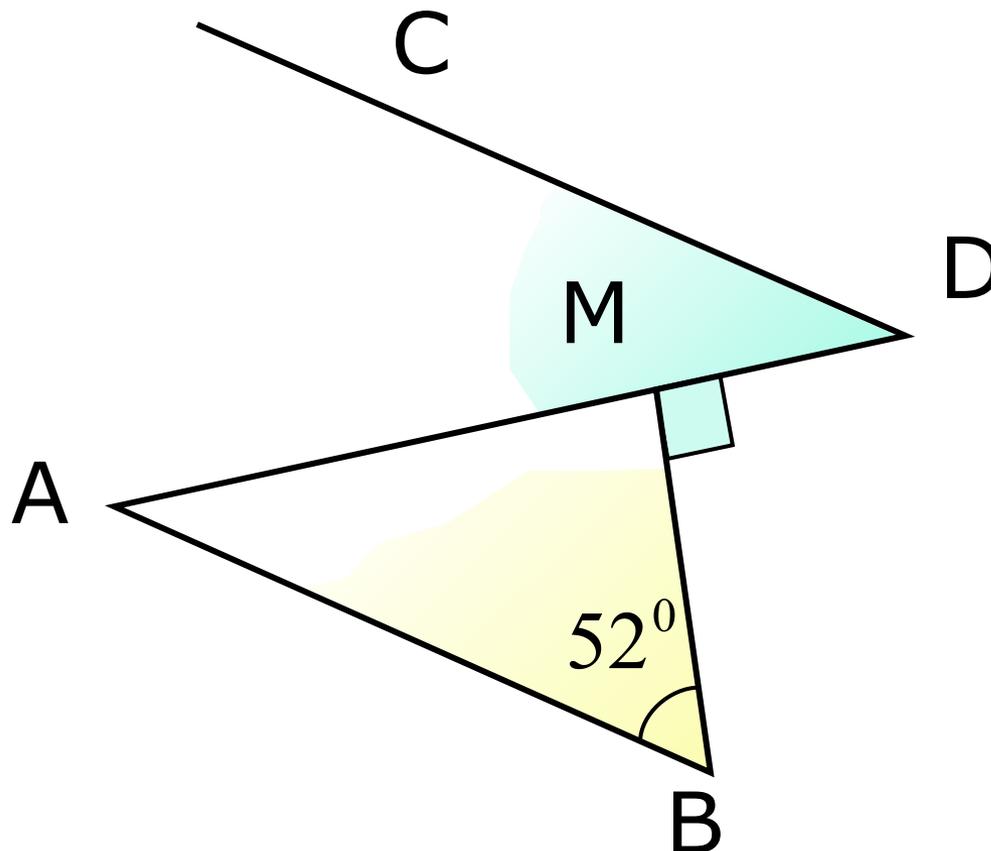
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$$\angle 1 : \angle 2 = 7 : 2$$

$\angle 1, \angle 2$



*Задача 4*

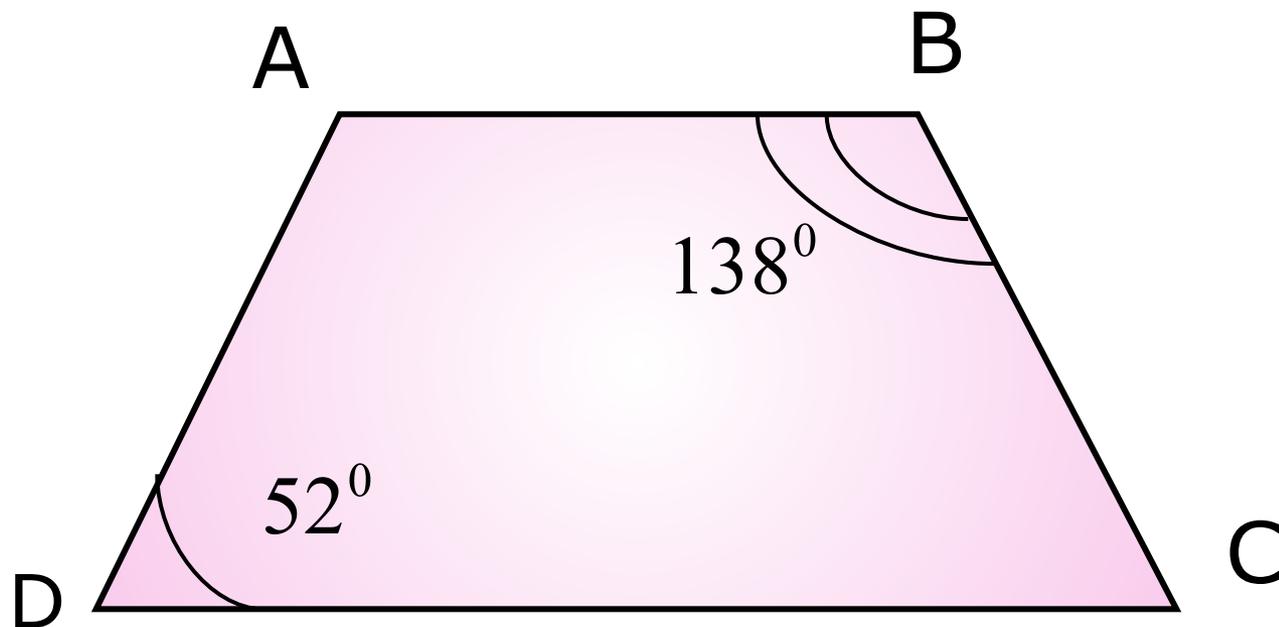


$AB \parallel DC$

$\angle MDC$



*Задача 5*

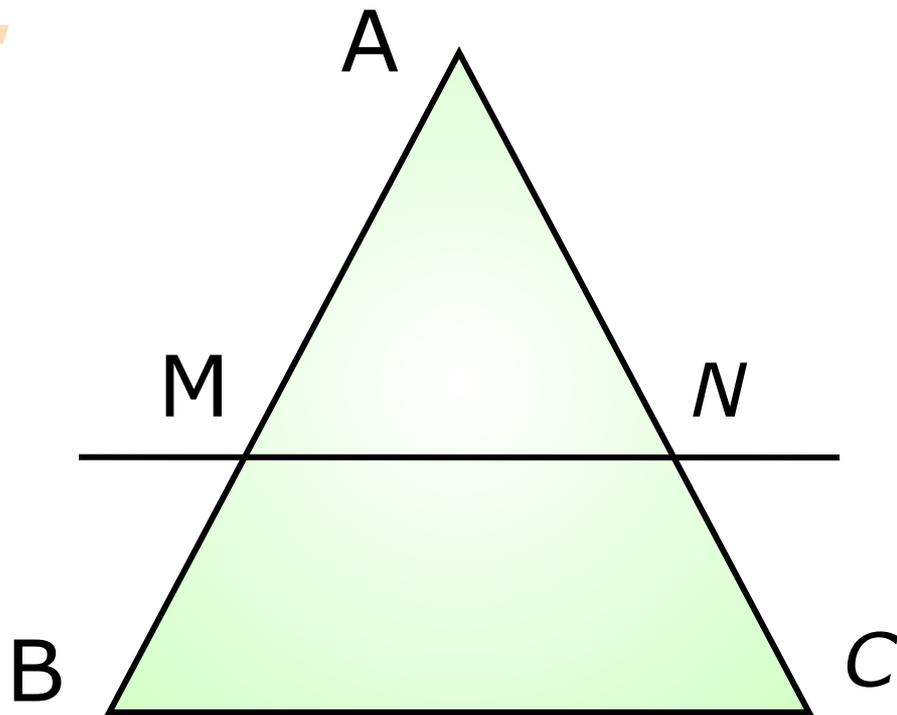


$AB \parallel DC$

$\angle A; \angle B$



*Задача 6*



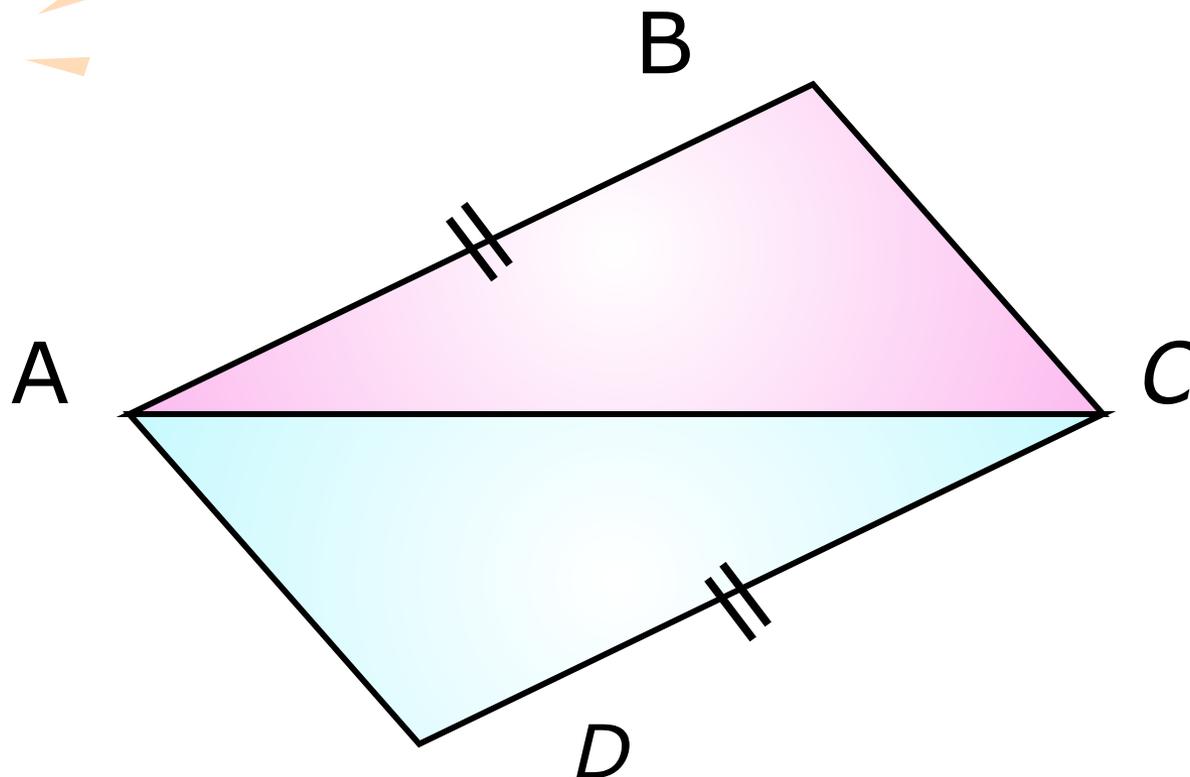
$\Delta ABC$ -равнобедренный,  
 $MN \parallel BC$

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$\Delta MAN$ -равнобедренный



*Задача 7*



$AB \parallel DC; AB = DC$

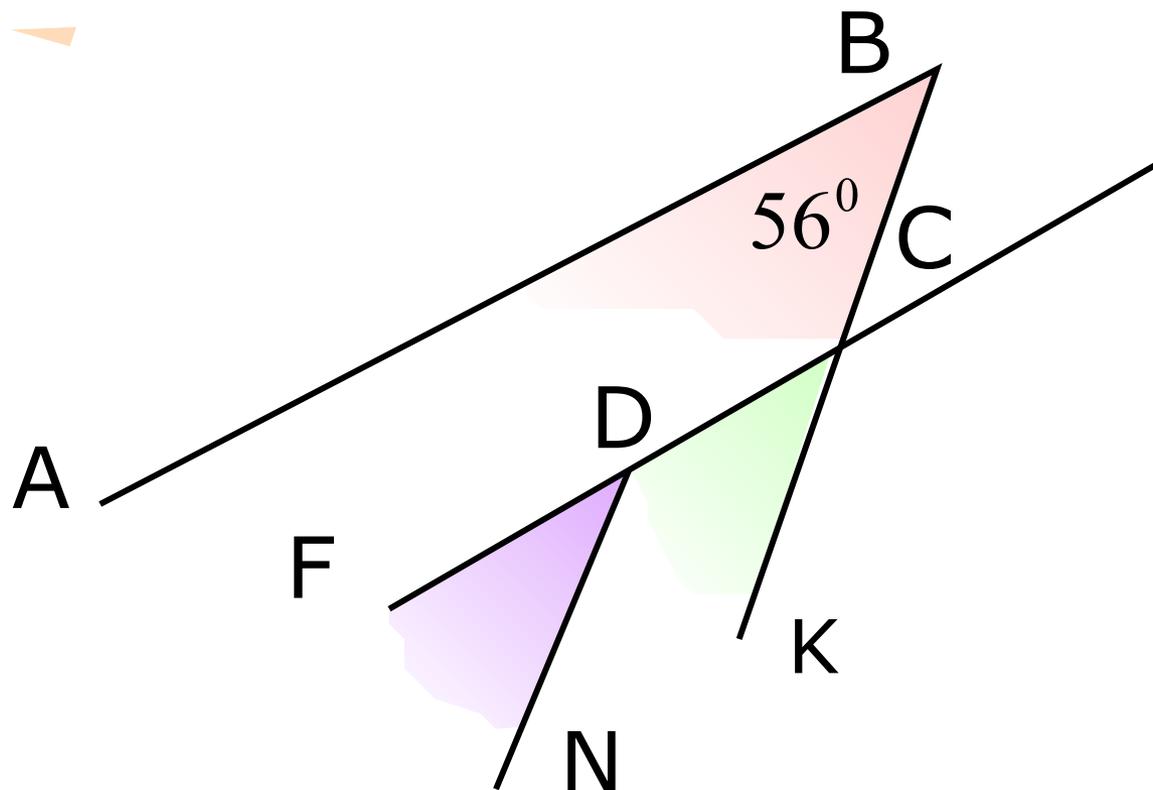
$BC = 10 \text{ см}$

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AD



*Задача 8*

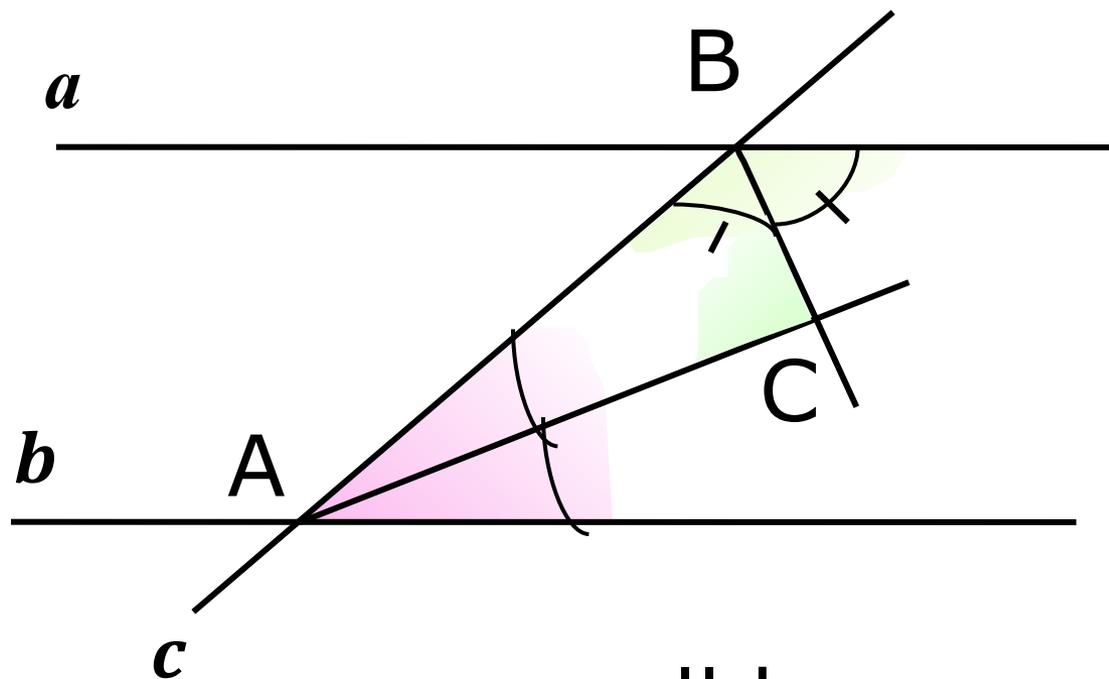


$AB \parallel DC, BC \parallel DN$

$\angle FDN$



Задача 9



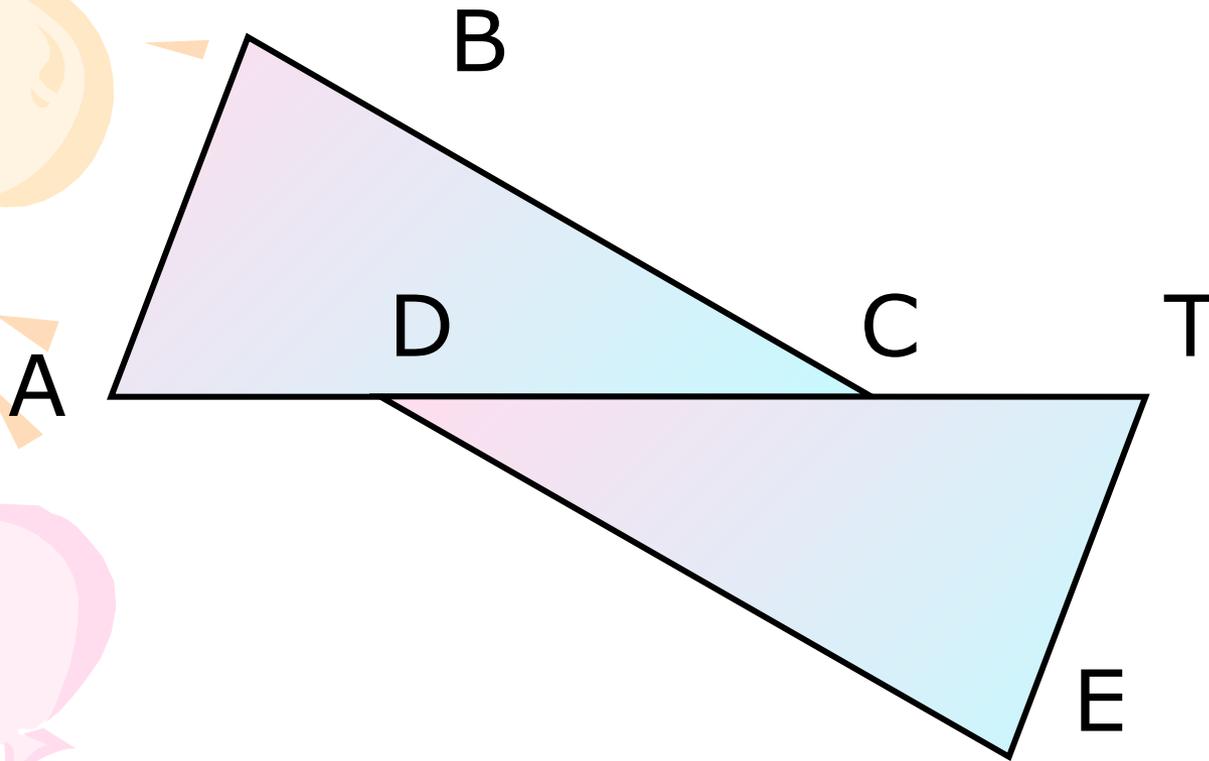
$a \parallel b$ ,  $c$ -секущая  
 $AC$  и  $BC$ - биссектрисы

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$$\angle A \hat{=} \angle B$$



*Задача 10*



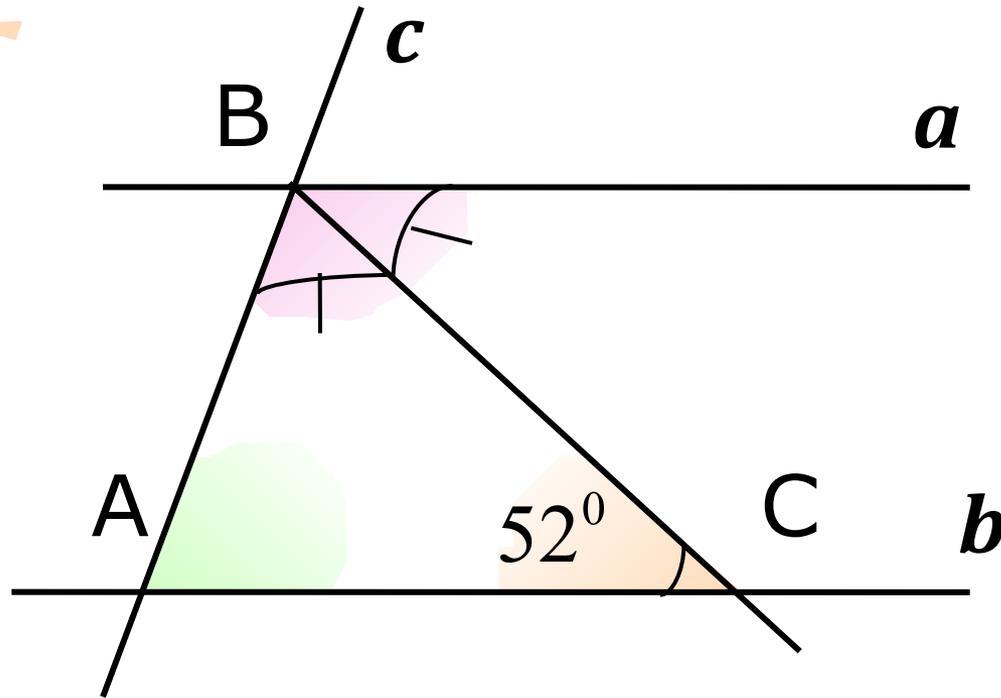
$AB \parallel TE, BC \parallel DE$

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Найти условия, при  
которых  
 $\triangle ABC$  равен  $\triangle DTE$



Задача 11



$a \parallel b$ ,  $BC$ - биссектриса

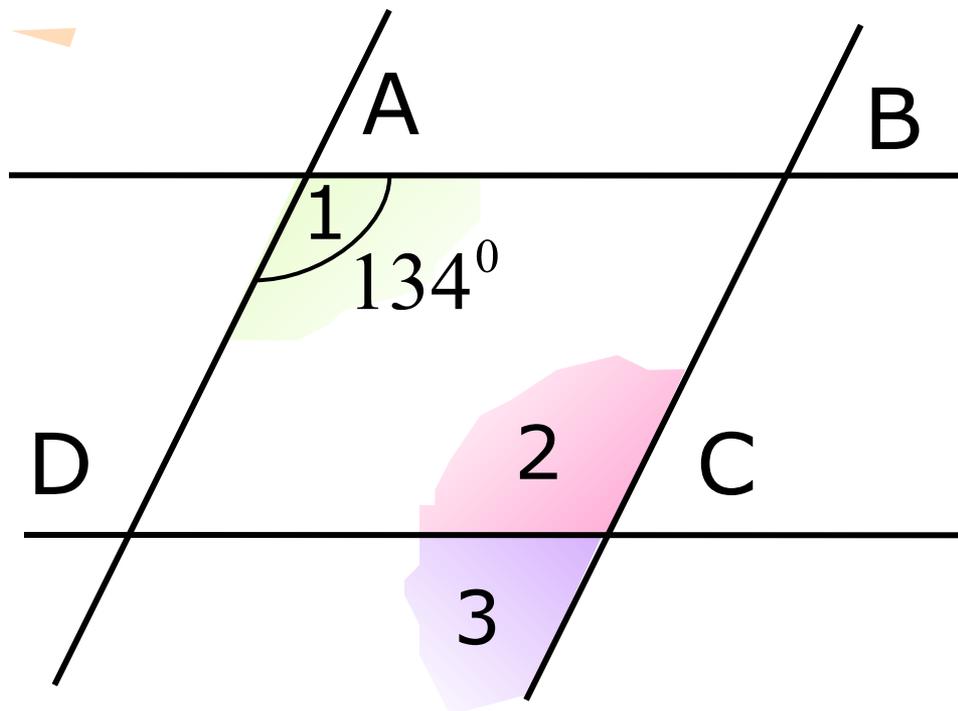
$$\angle \hat{A} \hat{B} \hat{C} = 52^\circ$$

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$$\angle \hat{A} \hat{A} \hat{B}$$



*Задача 12*



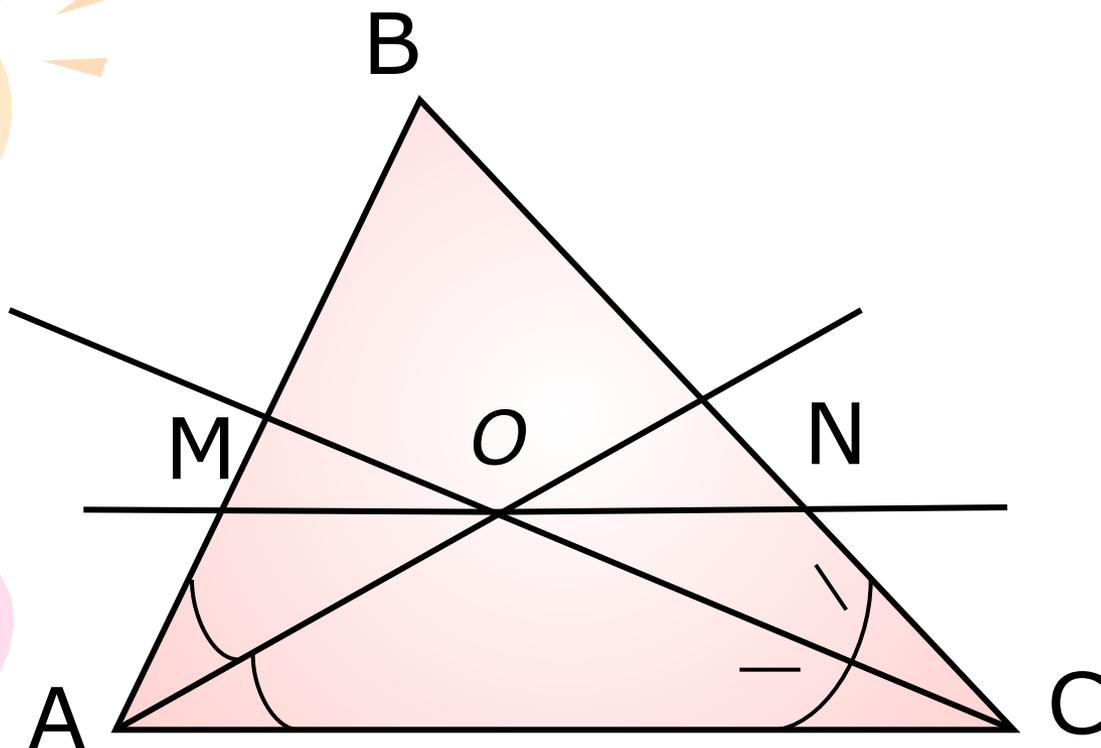
$AB \parallel DC, BC \parallel AD$

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$\angle 2, \angle 3$



*Задача 13*



$MN \parallel AC$

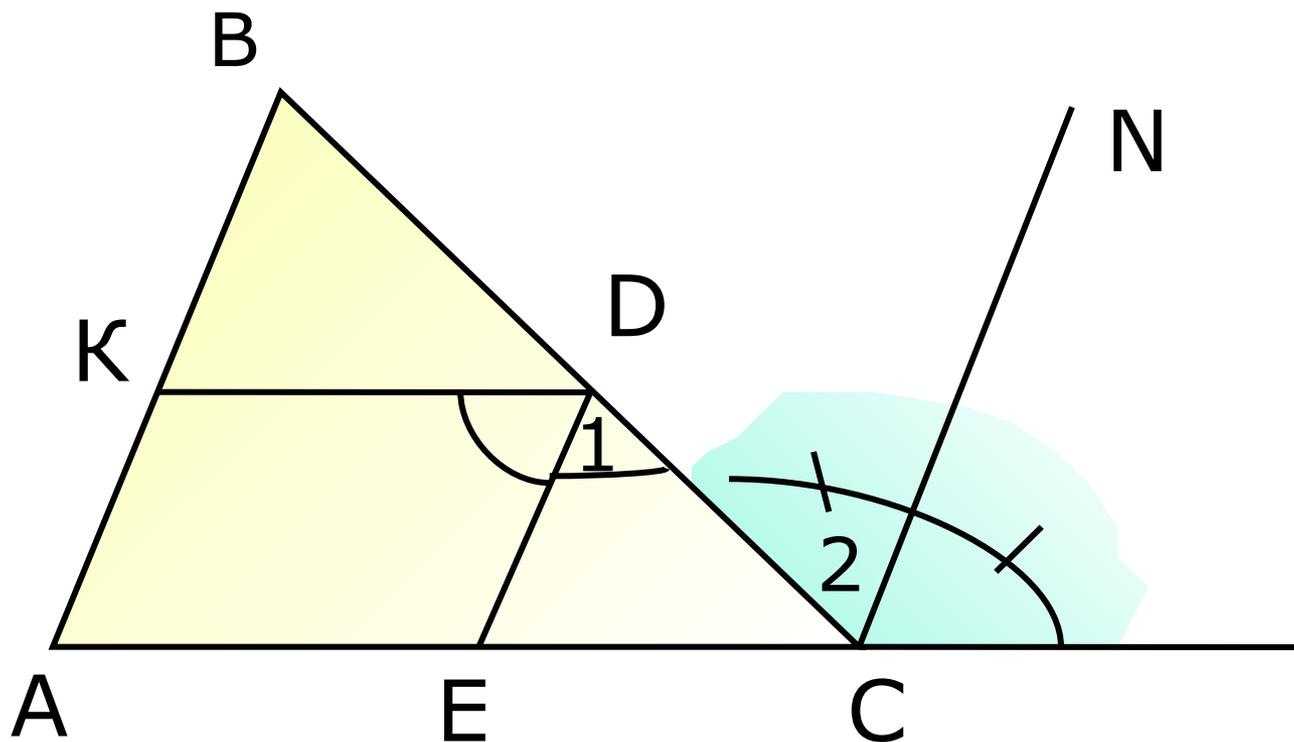
$AO$  и  $CO$ - биссектрисы

---

$$MN = AM + CN$$



*Задача 14*



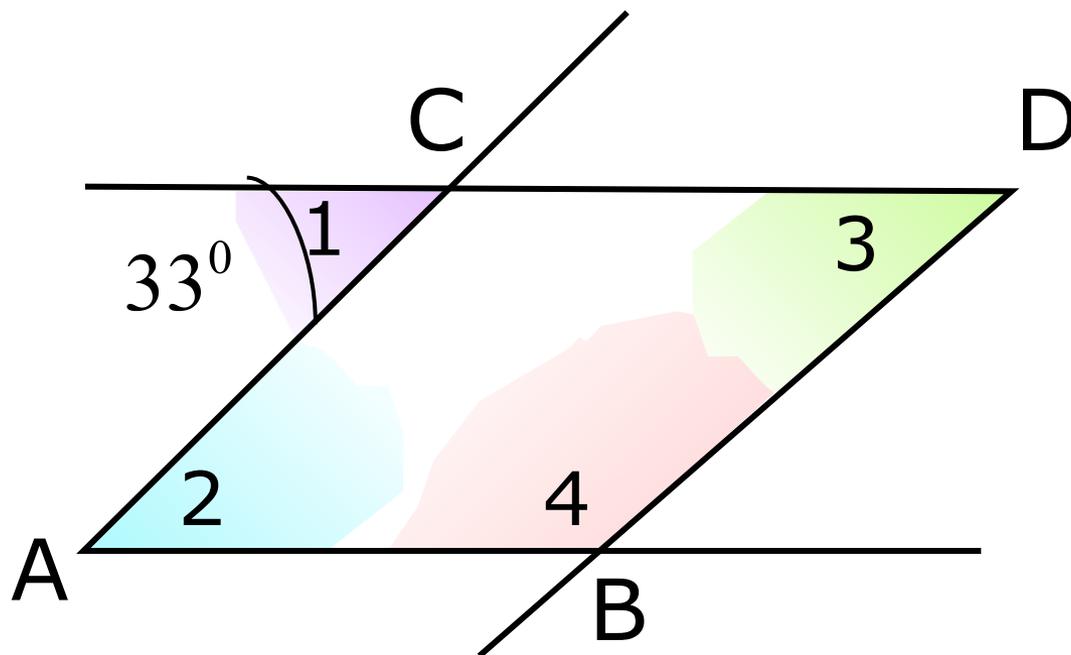
$KD \parallel AC$

---

$\angle 1 = \angle 2$



*Задача 15*

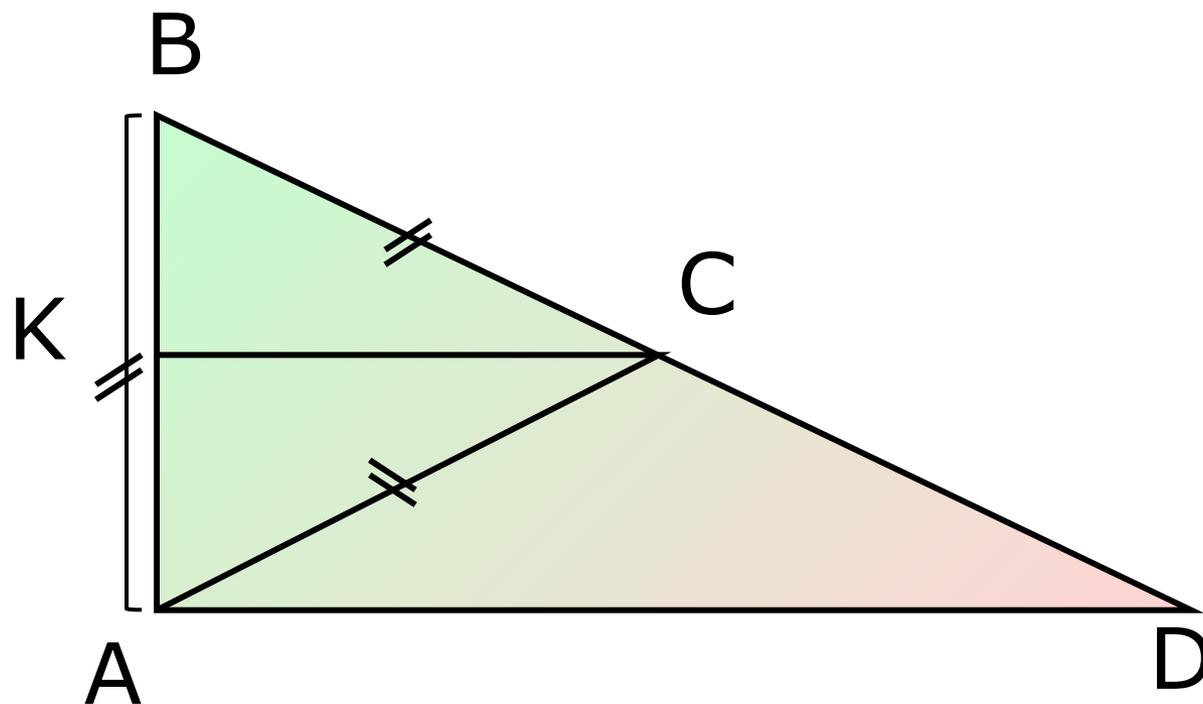


$AC \parallel DB, DC \parallel AD$

$\angle 2, \angle 3, \angle 4$



Задача 16



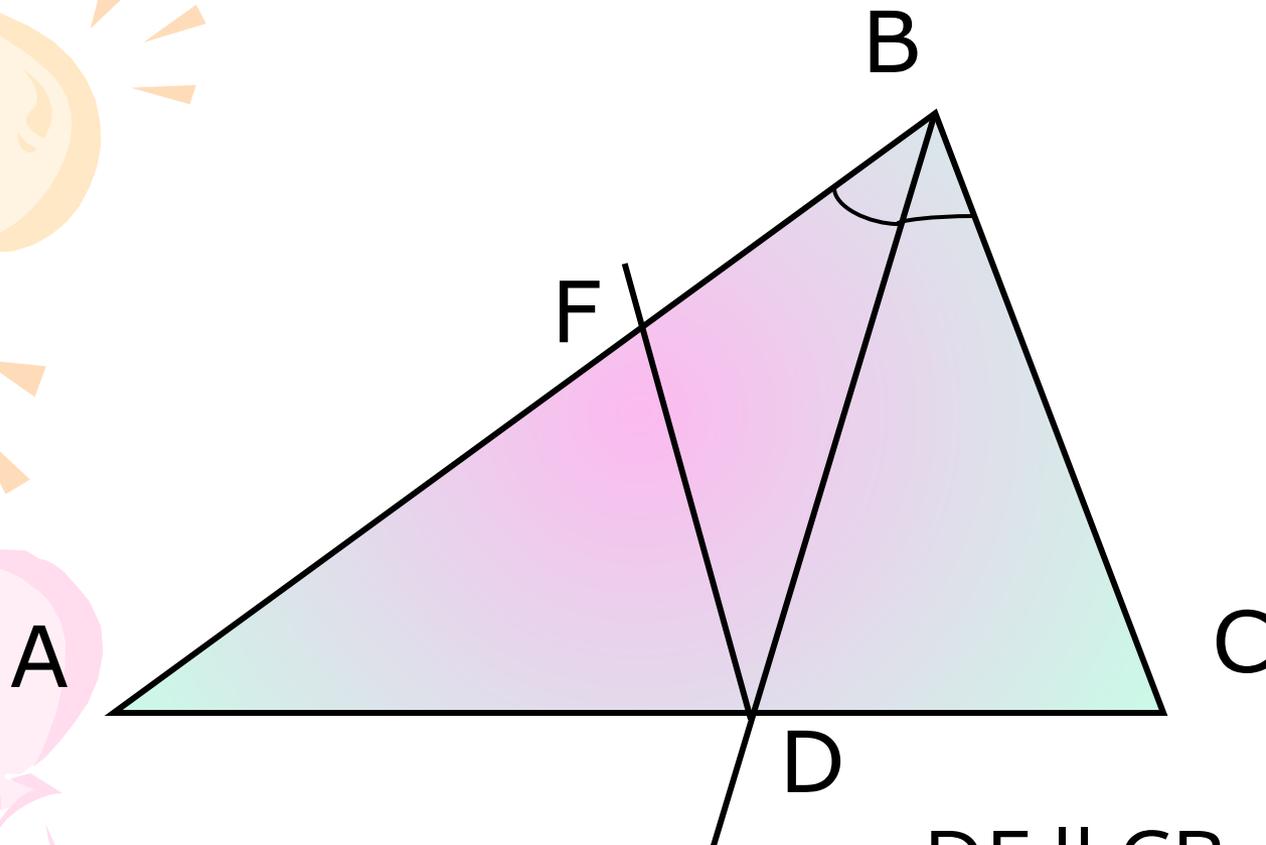
$AD \parallel CK$

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$CK \perp AB$



*Задача 17*



$DF \parallel CB$

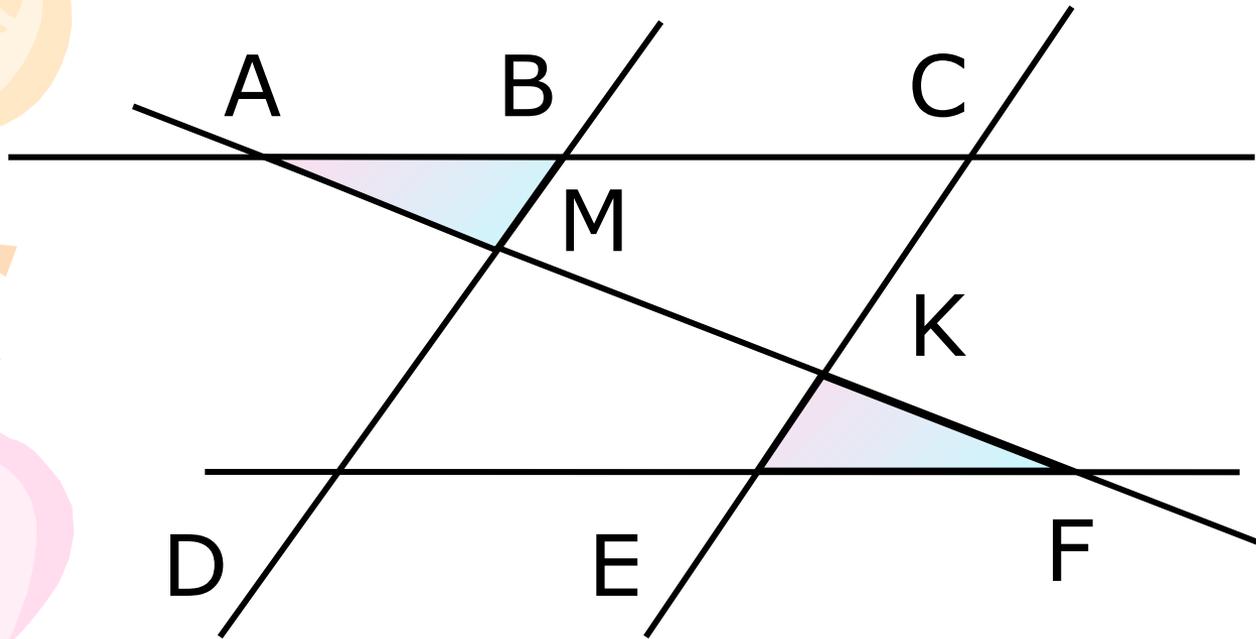
$BD$  - биссектриса

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$DF = FB$



*Задача 18*



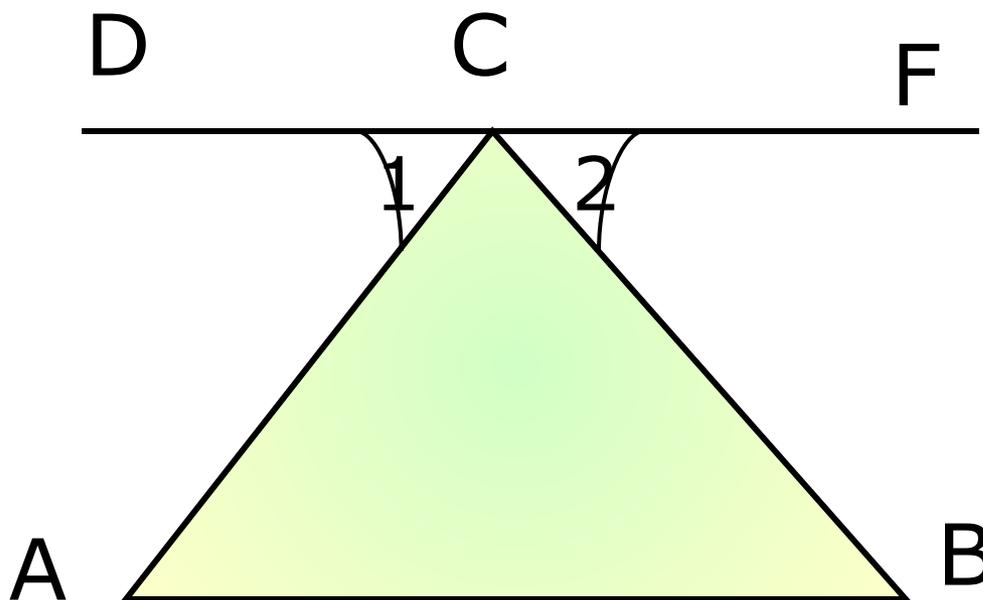
$AC \parallel DF, \quad DB \parallel EC$

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Доказать, что углы  $\triangle ABM$   
соответственно равны углам  
 $\triangle DEF$



*Задача 19*



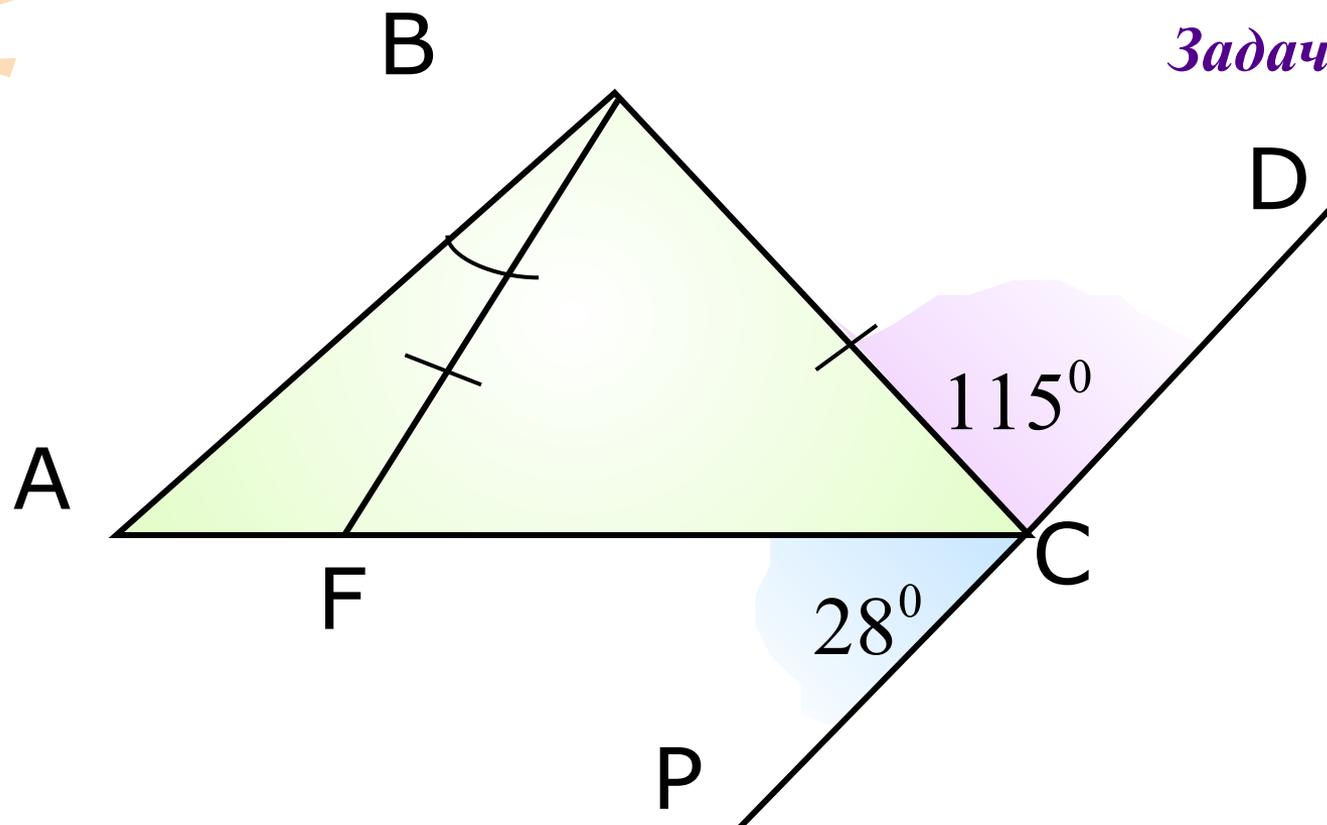
$$AB \parallel DF, \angle 1 = \angle 2$$

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$$AB = CB$$



*Задача 20*

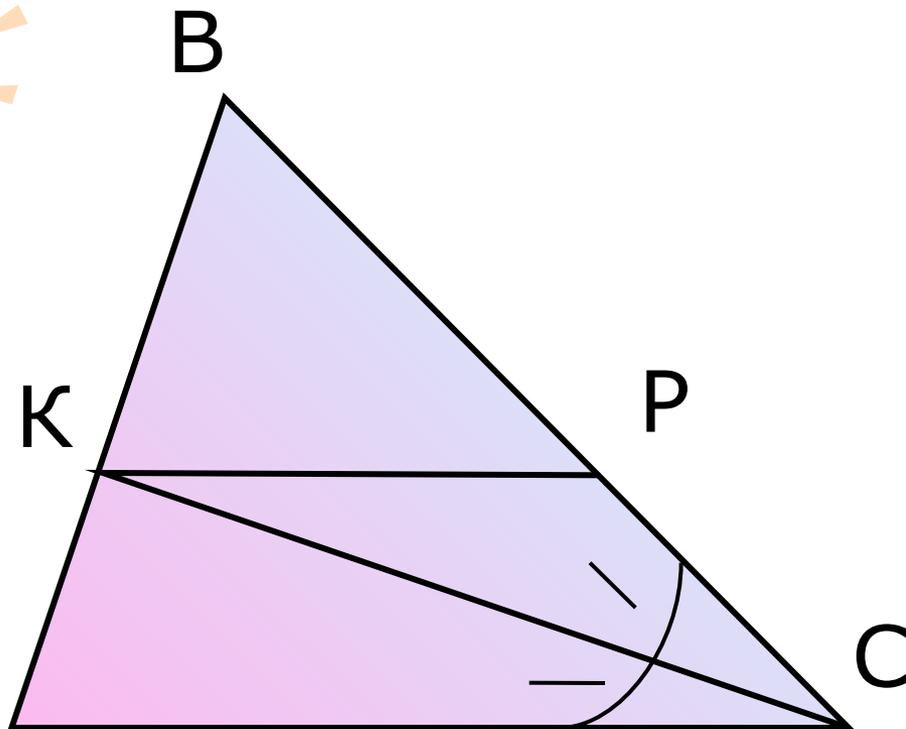


$AB \parallel PD$

$\angle ABF$



*Задача 21*



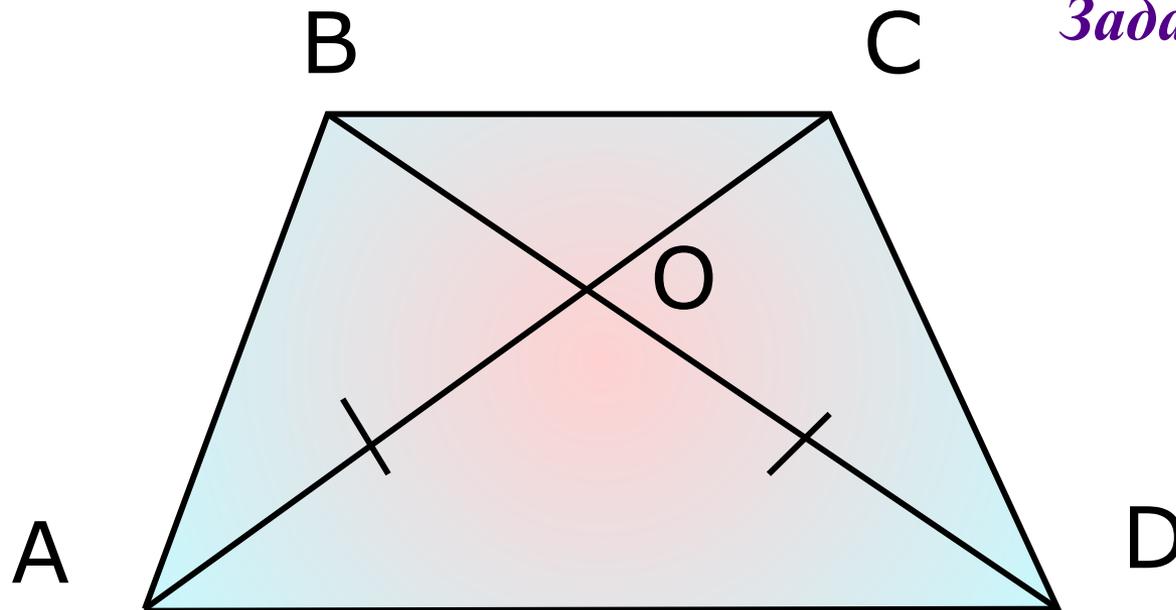
$AC \parallel KP,$   
 $CK -$

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биссектриса  
 $\triangle KPC$ -равнобедренный



*Задача 22*



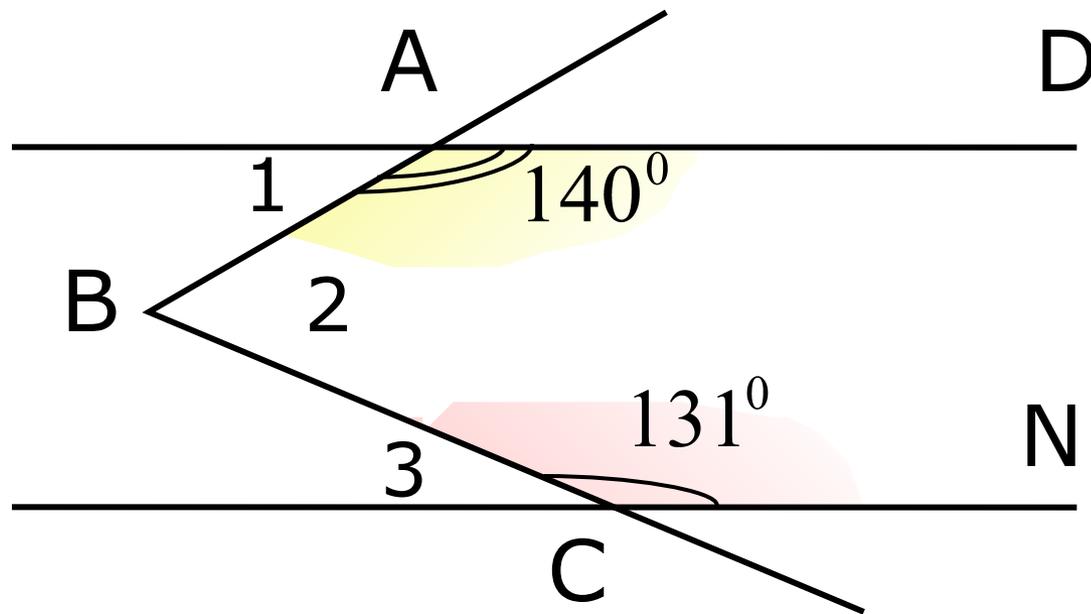
$$BC \parallel AD, AO = OD$$

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$$\triangle ABD = \triangle ACD$$



Задача 23



$AD \parallel CN$   

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 $\angle 1, \angle 2, \angle 3$



# Признаки параллельных прямых

1

2

3

4

5

6

7

8

9

10

11

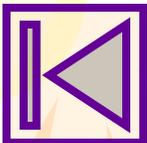
12

13

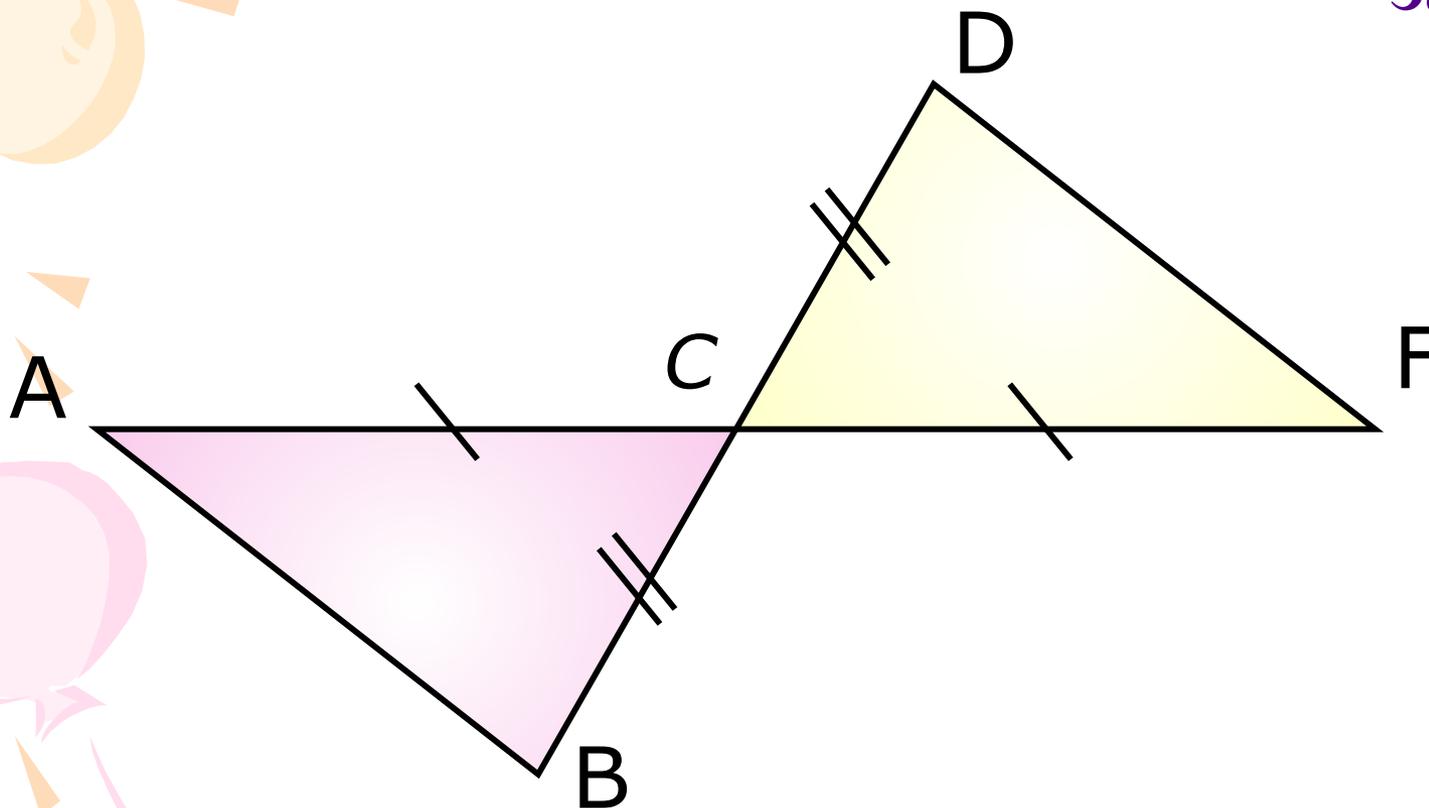
14

15

16



*Задача 11*

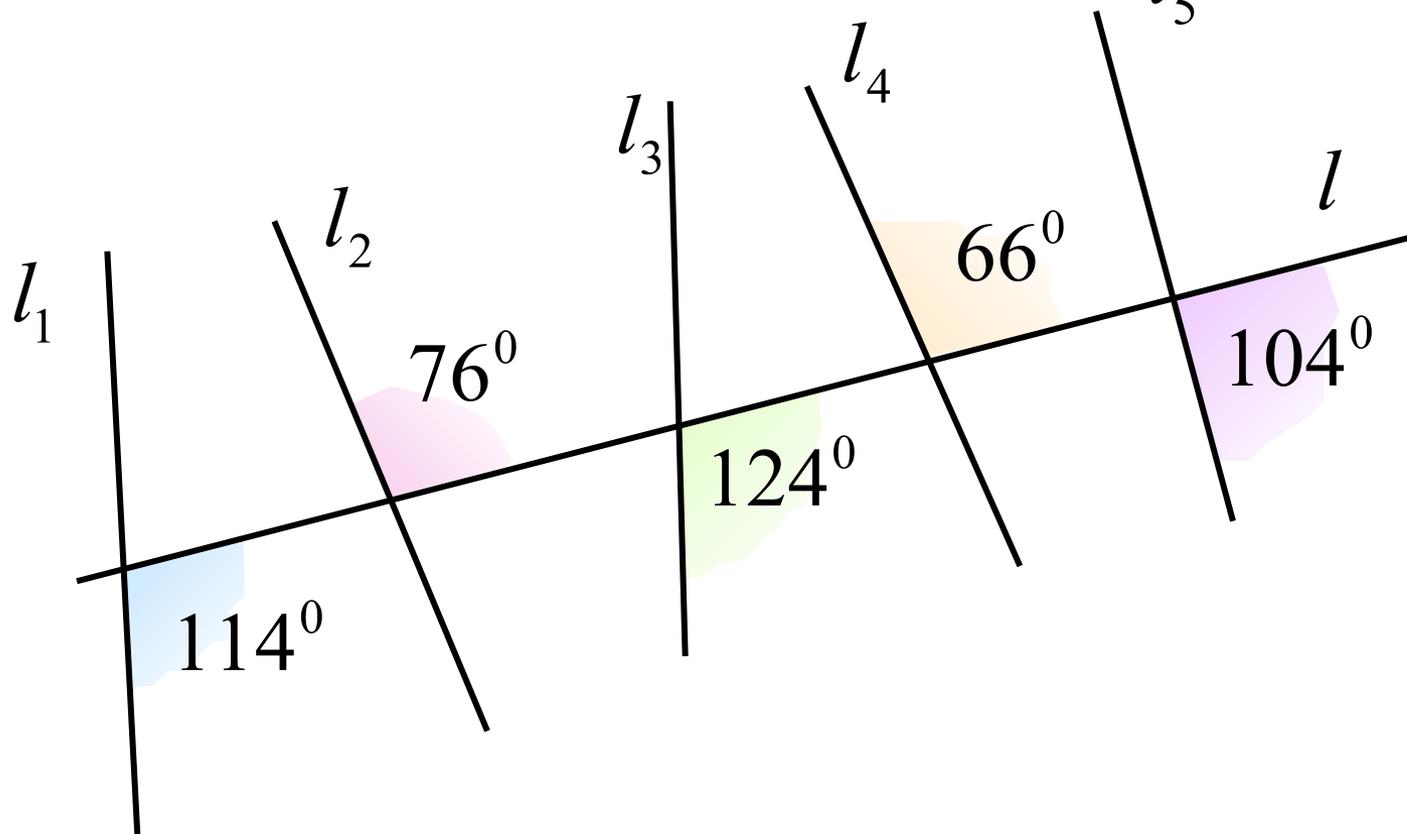


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$AB \parallel DF$



*Задача 2*

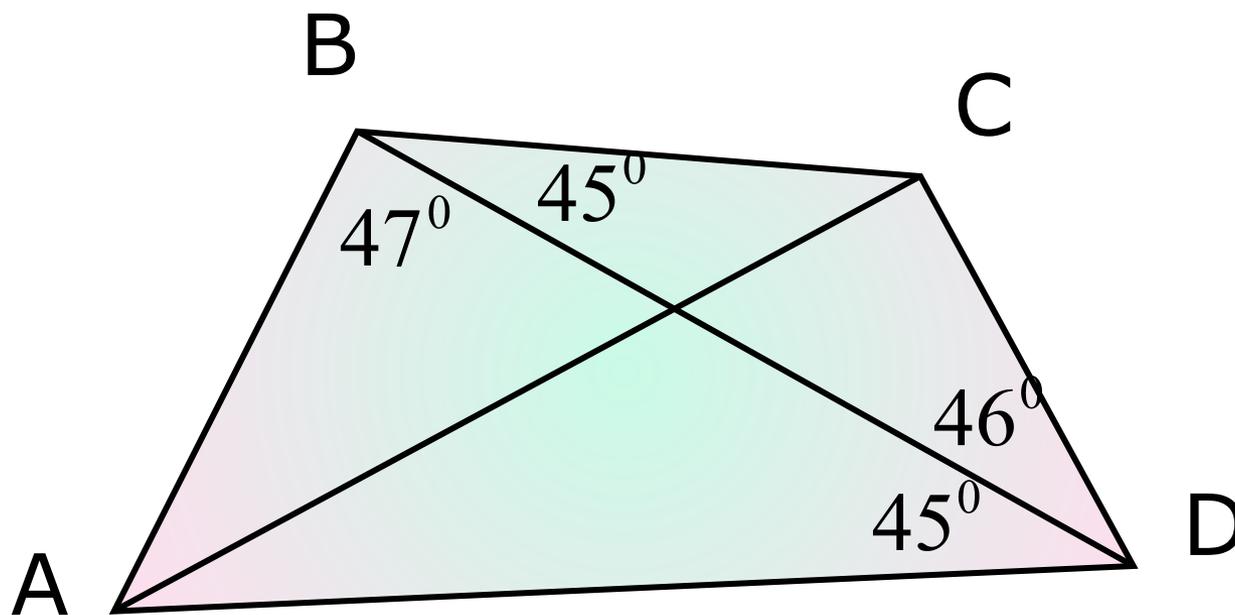


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Найти  
параллельные  
прямые



*Задача 3*

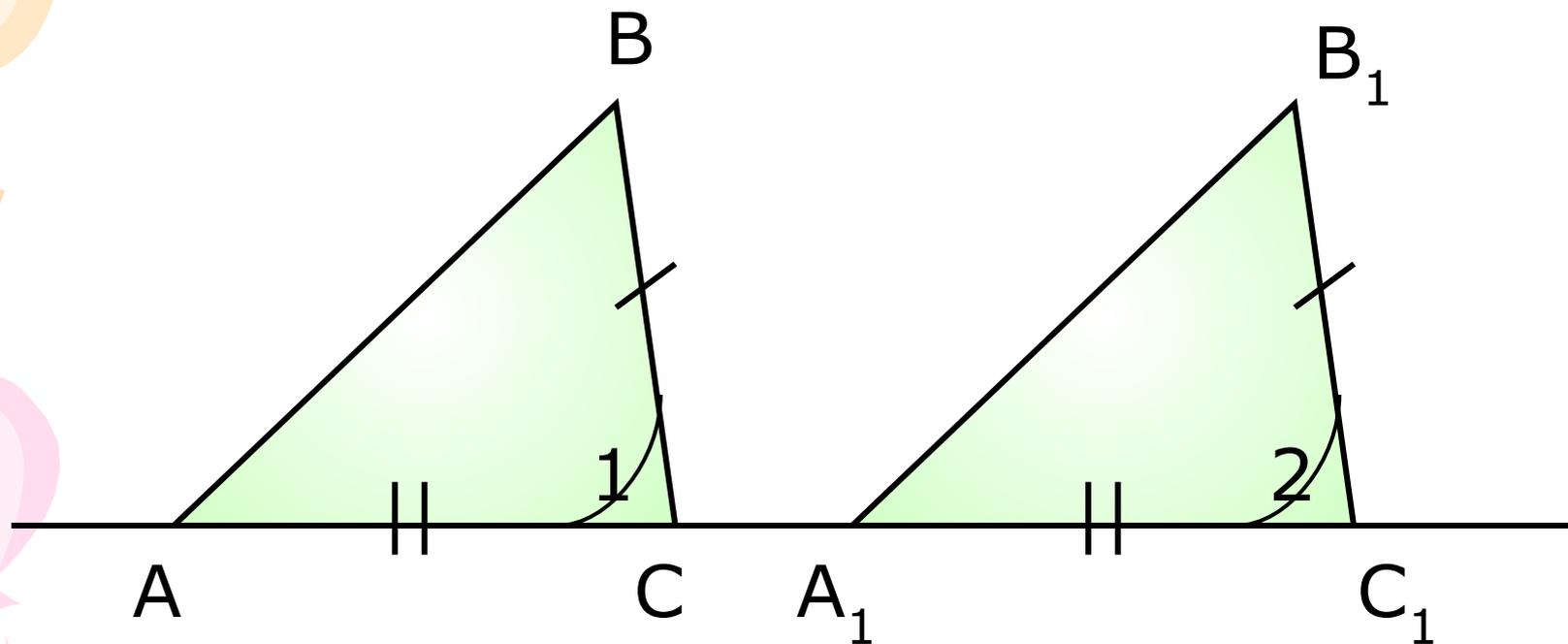


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Укажите  
параллельные  
прямые



*Задача 4*

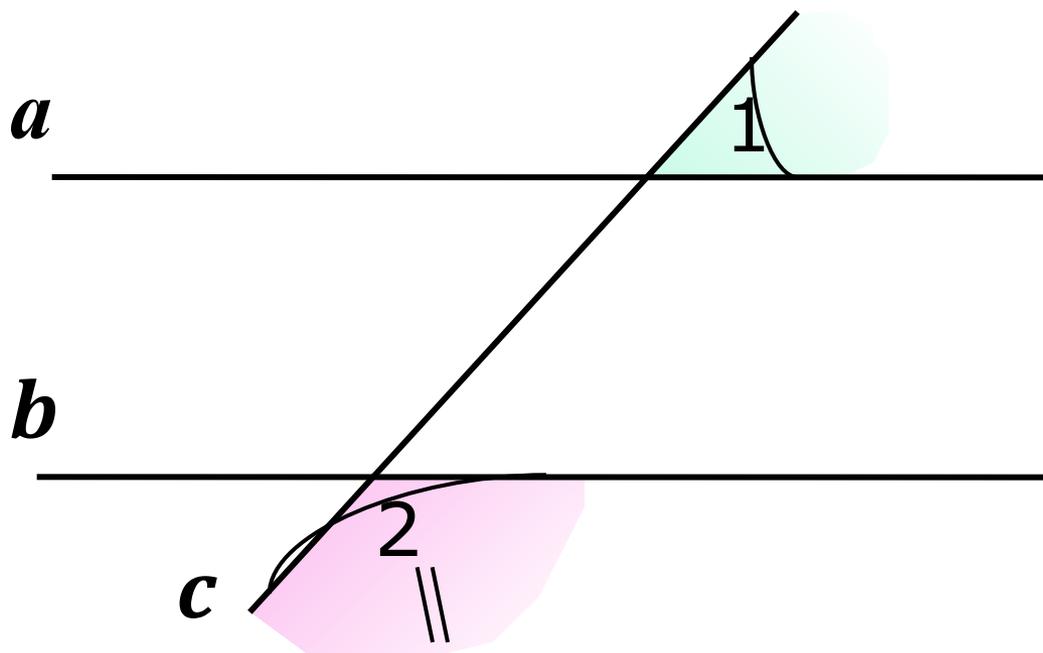


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$$AB \parallel A_1B_1$$



## Задача 5



$$\angle 1 + \angle 2 = 180^{\circ}$$

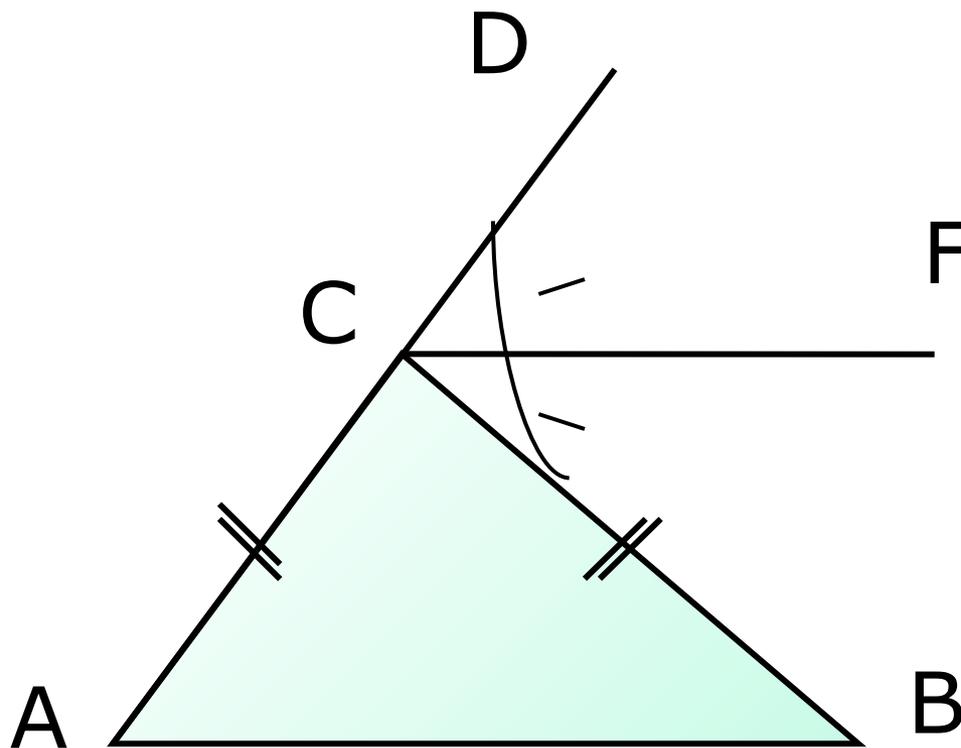
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$a \parallel$

$b$



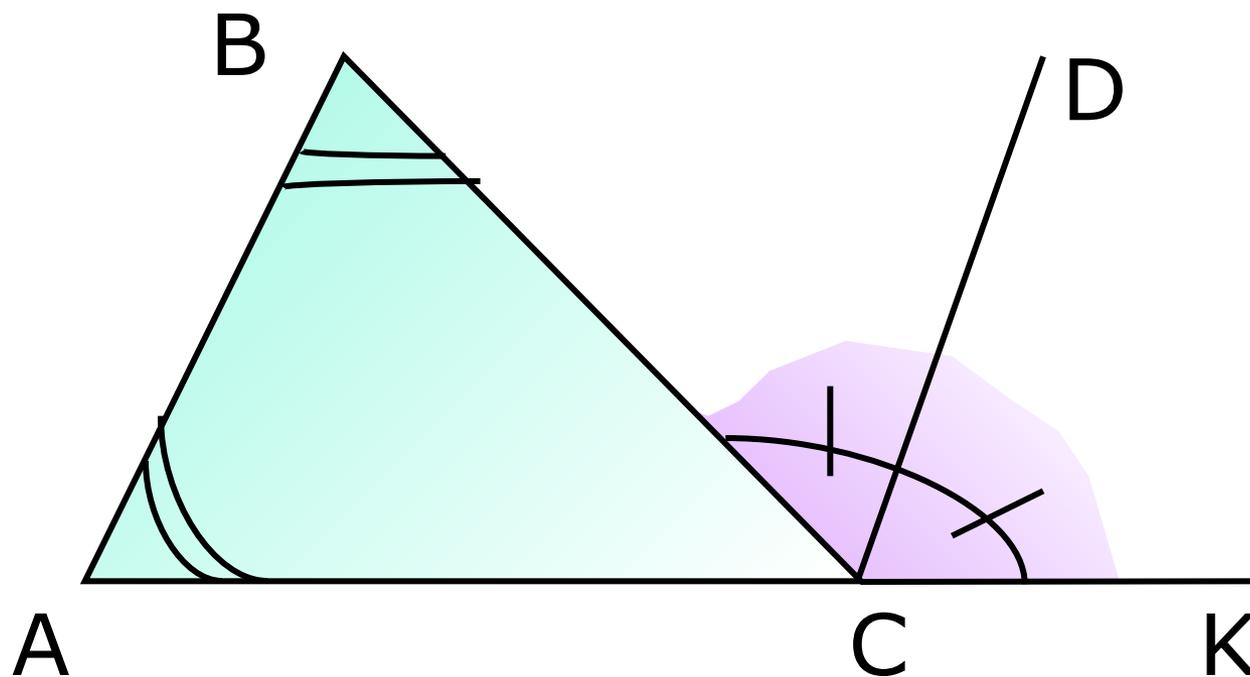
*Задача 6*



CF-  
биссектриса  
AB || CF



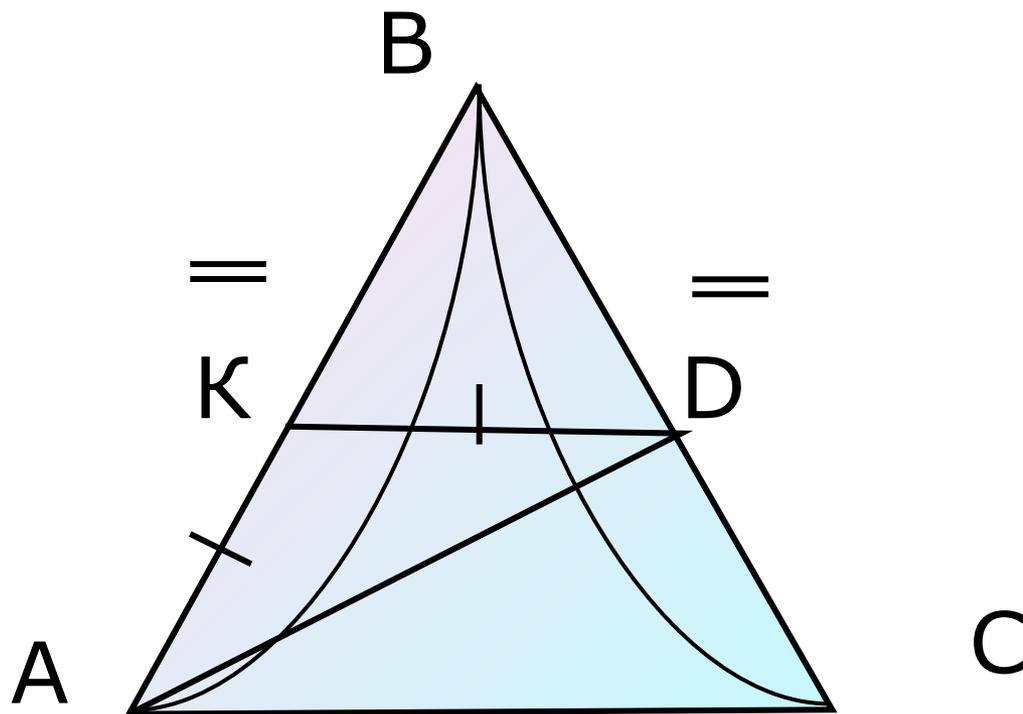
*Задача 7*



$AB \parallel CD$



*Задача 8*

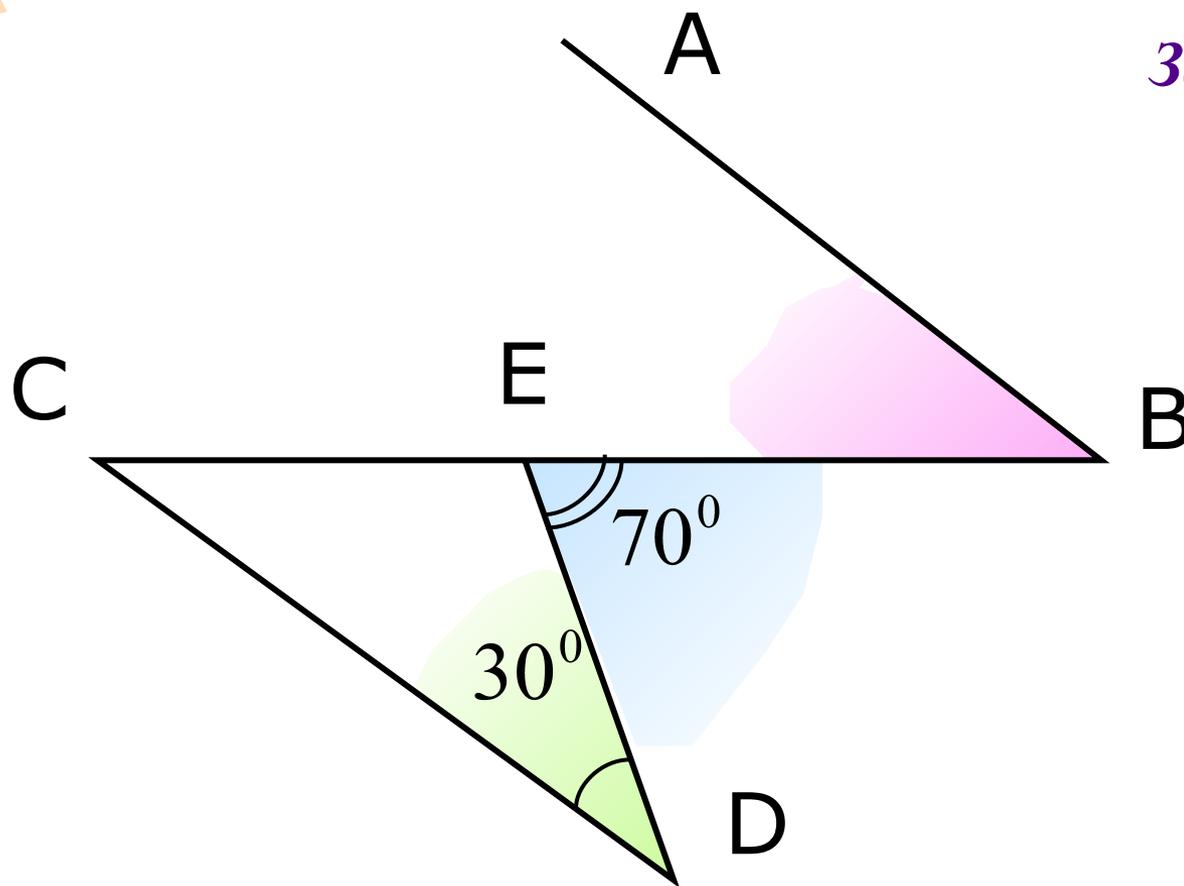


$$\angle \tilde{N} = 80^{\circ}, \angle DAC = 40^{\circ}$$

AC || KP



*Задача 9*

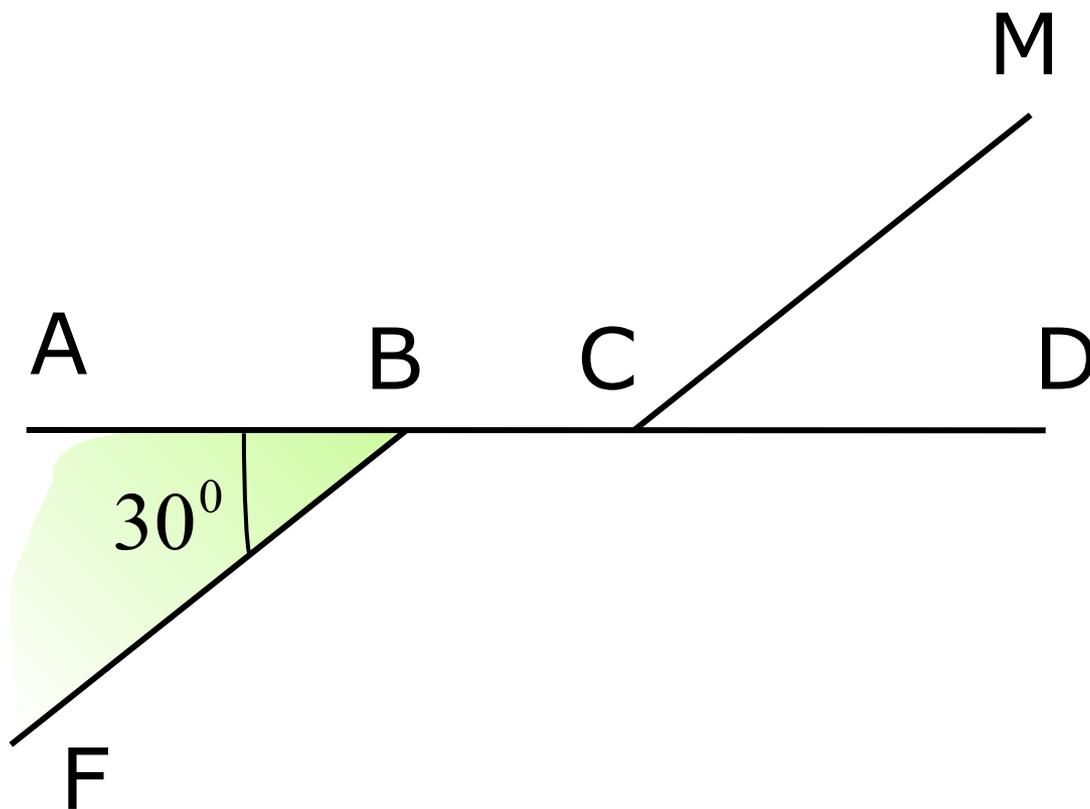


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Найти условия,  
при которых  $AB \parallel DC$



*Задача 10*

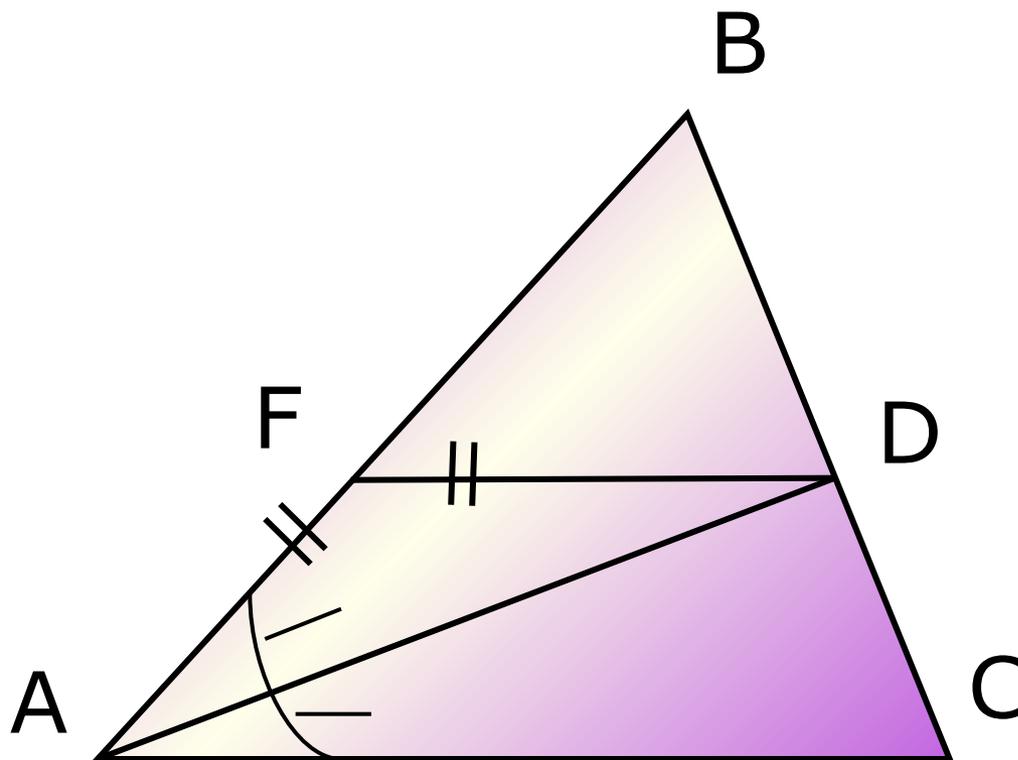


---

Найти условия,  
при которых  $FB \parallel CM$



*Задача 11*

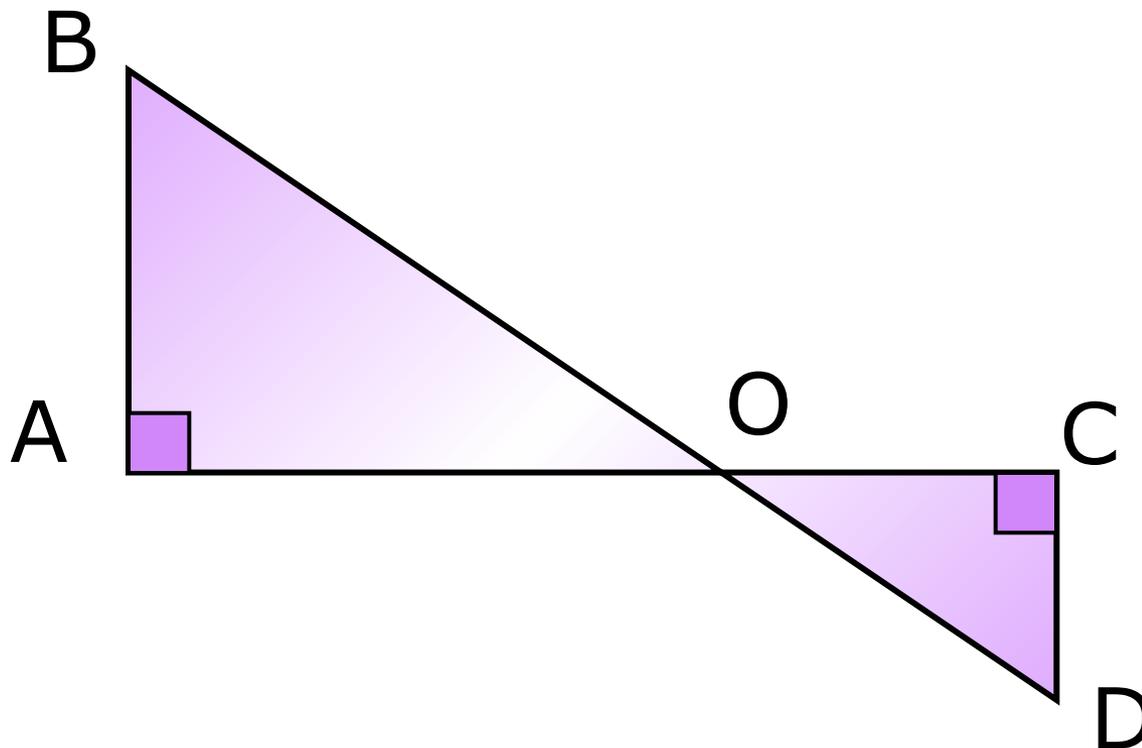


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$FB \parallel AC$



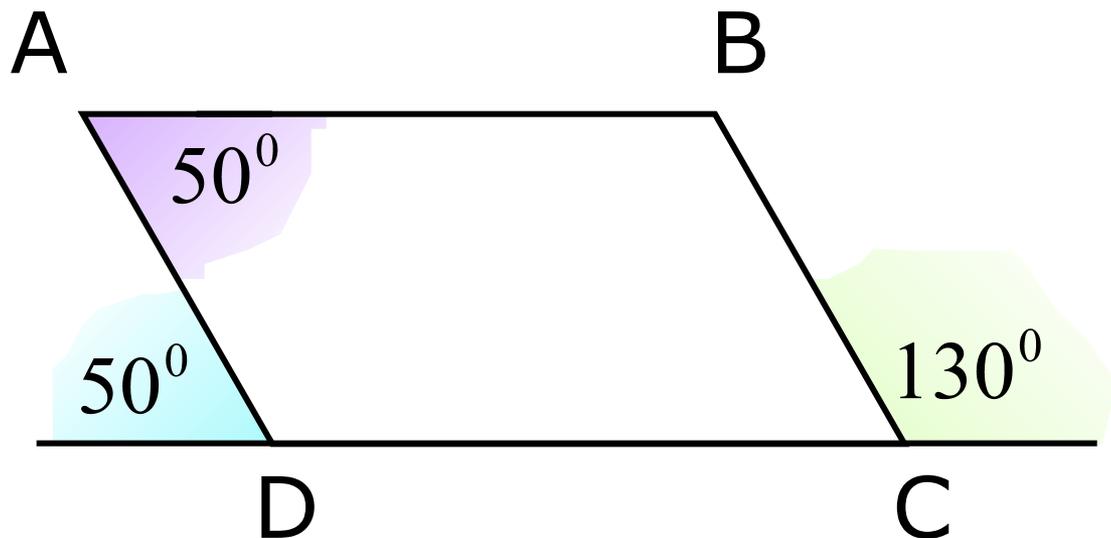
*Задача 12*



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Укажите  
параллельные  
прямые

*Задача 13*

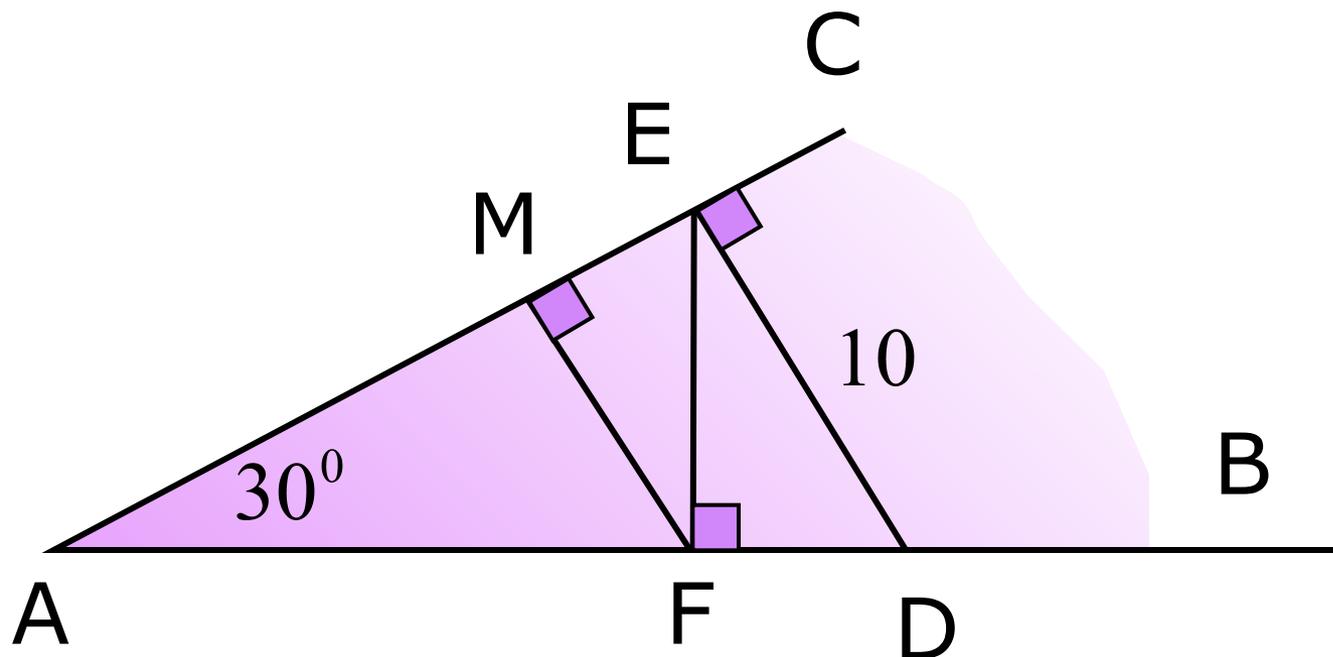


---

Укажите  
параллельные  
прямые



Задача 14

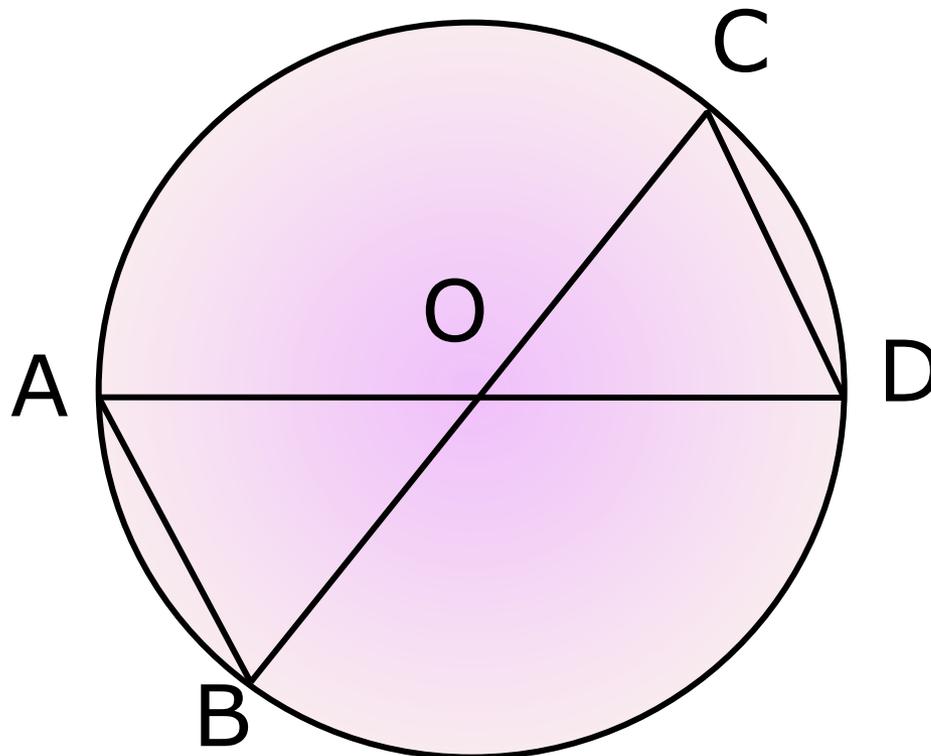


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Найти:  
FM



*Задача 15*

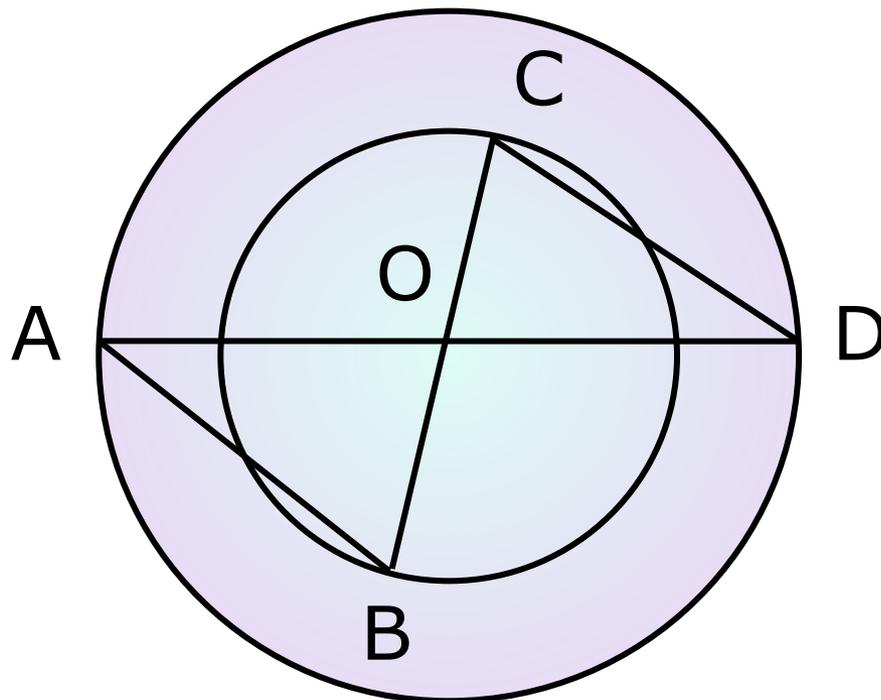


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$AB \parallel CD$



*Задача 16*



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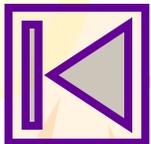
FB  $\parallel$  AC



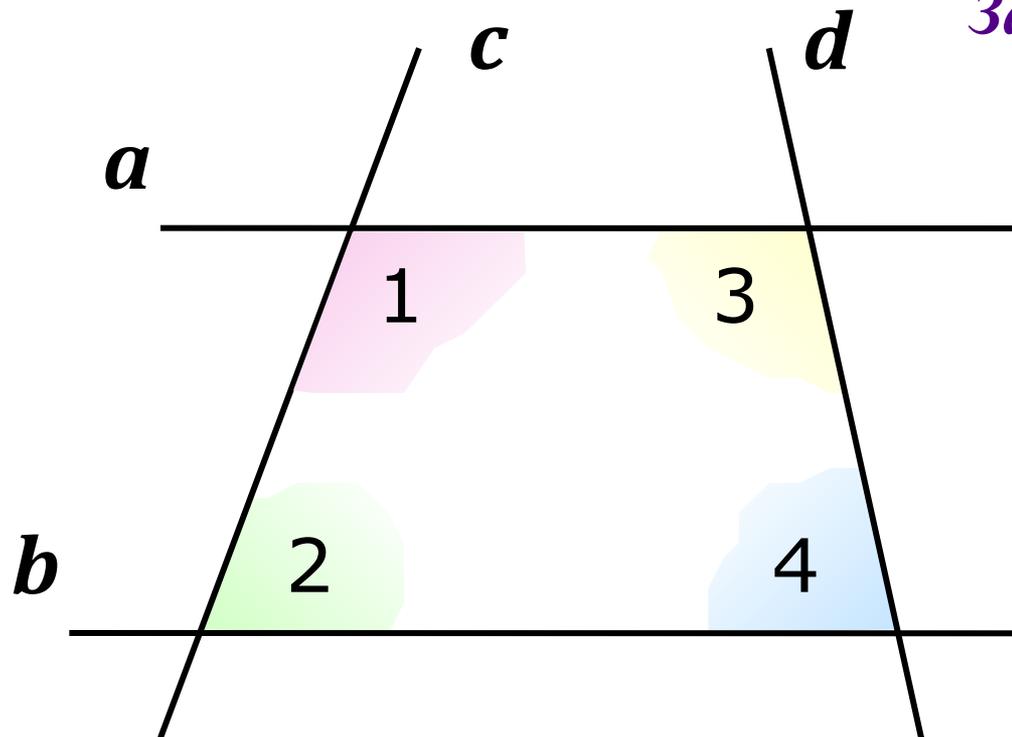


# *Комбинированные*

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>



*Задача 1*



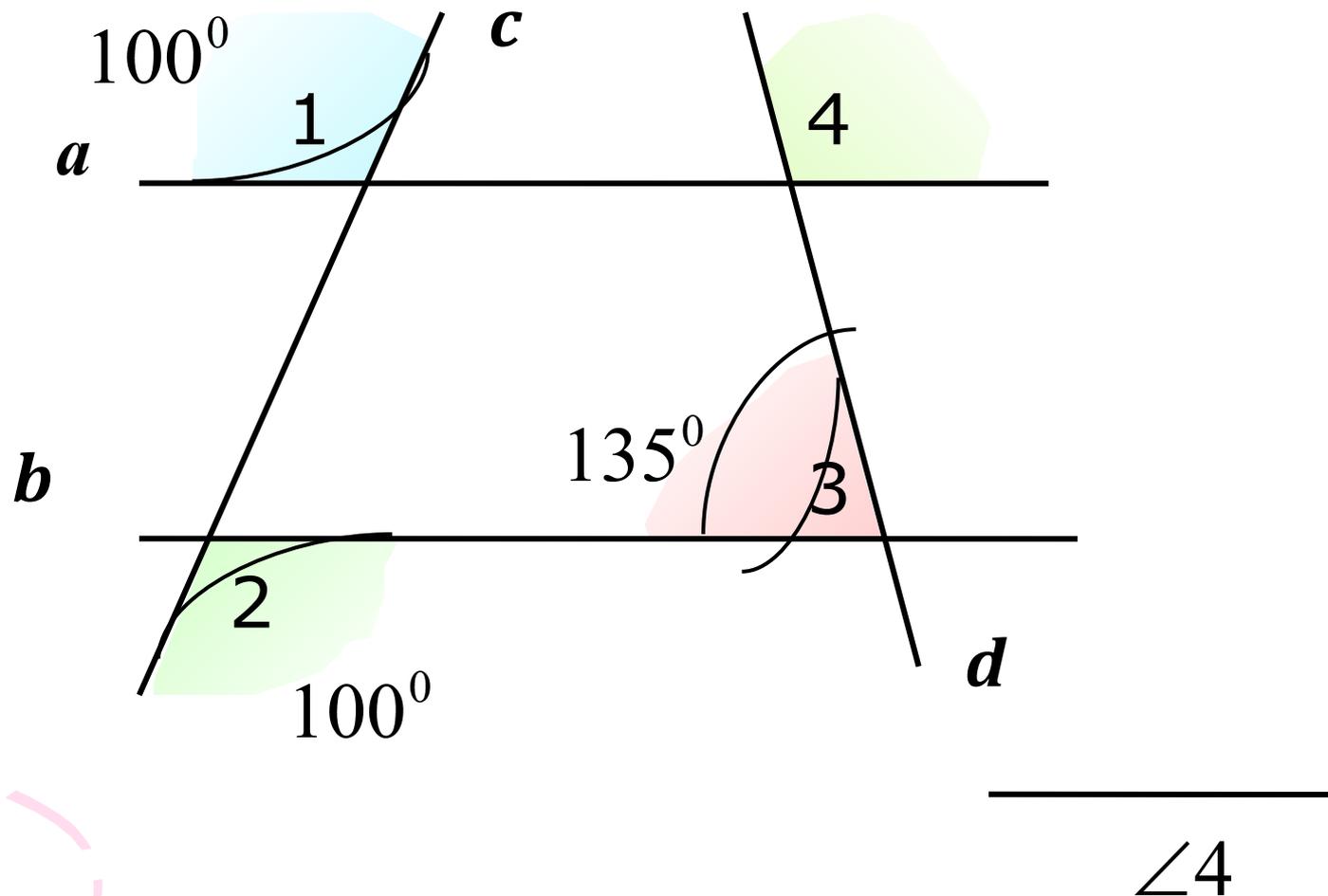
$$\angle 1 + \angle 2 = 180^{\circ}$$

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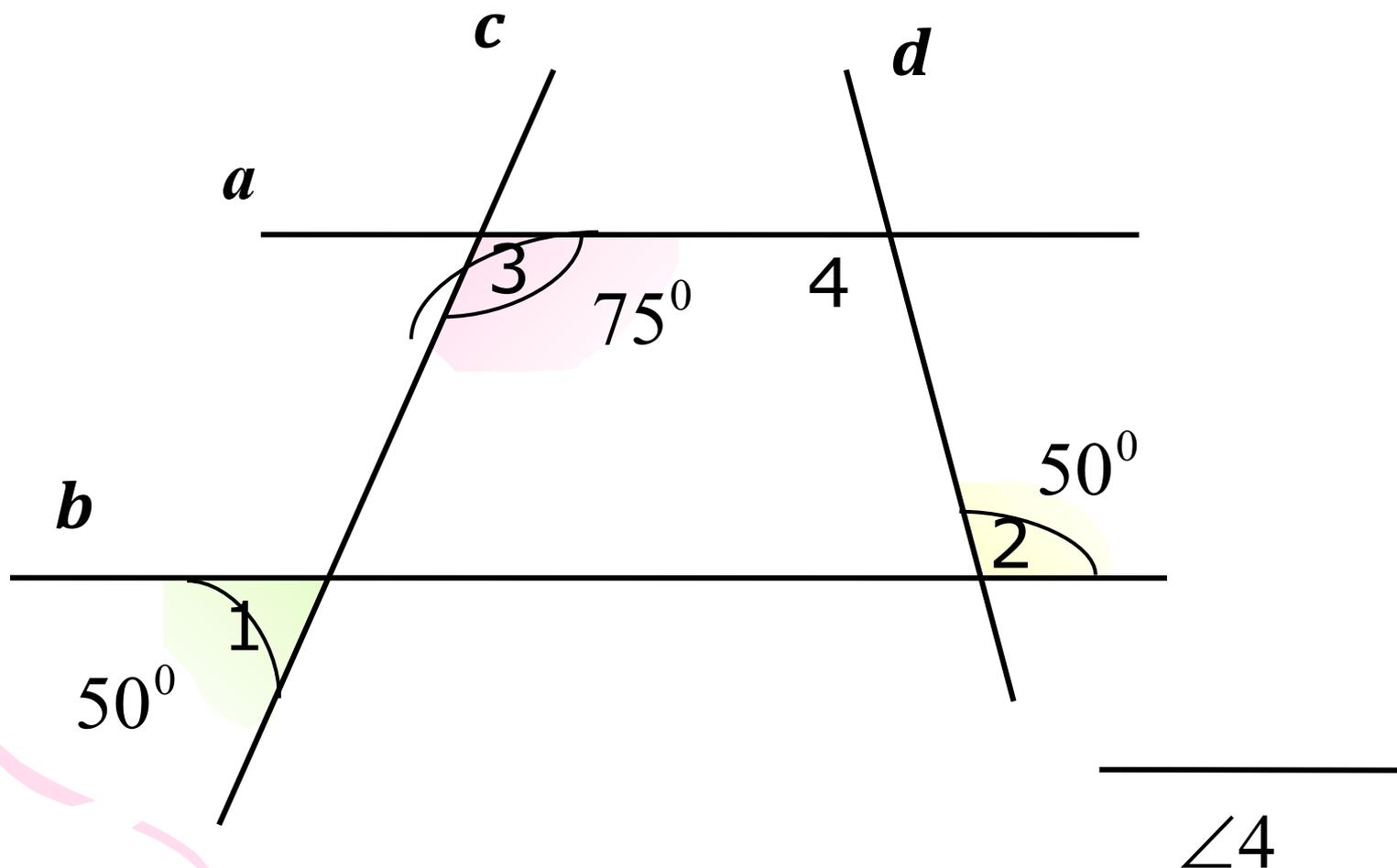
$$\angle 3 + \angle 4 = 180^{\circ}$$



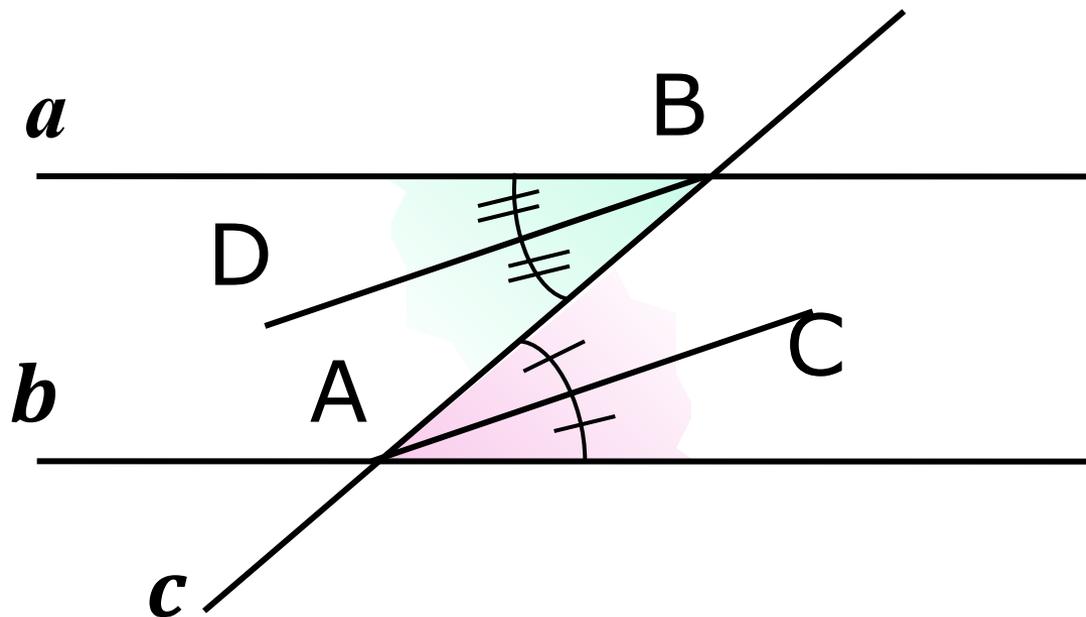
## Задача 2



### Задача 3



Задача 4

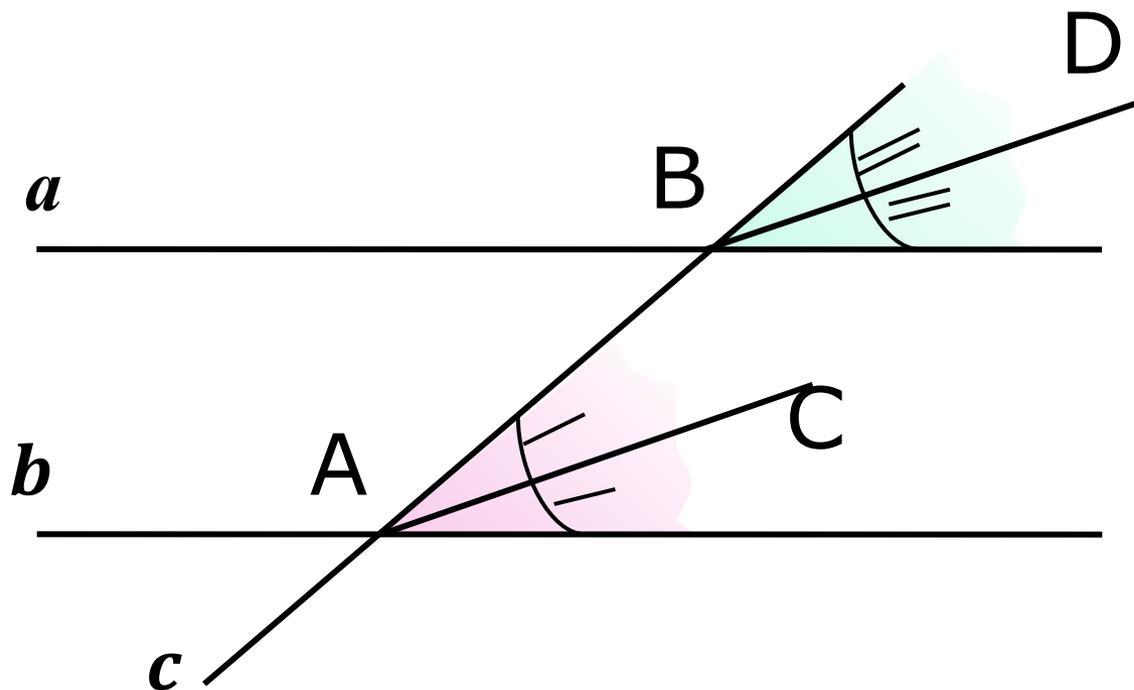


$a \parallel b, c$ -  
секущая- биссектрисы

AC  $\parallel$  BD



Задача 5



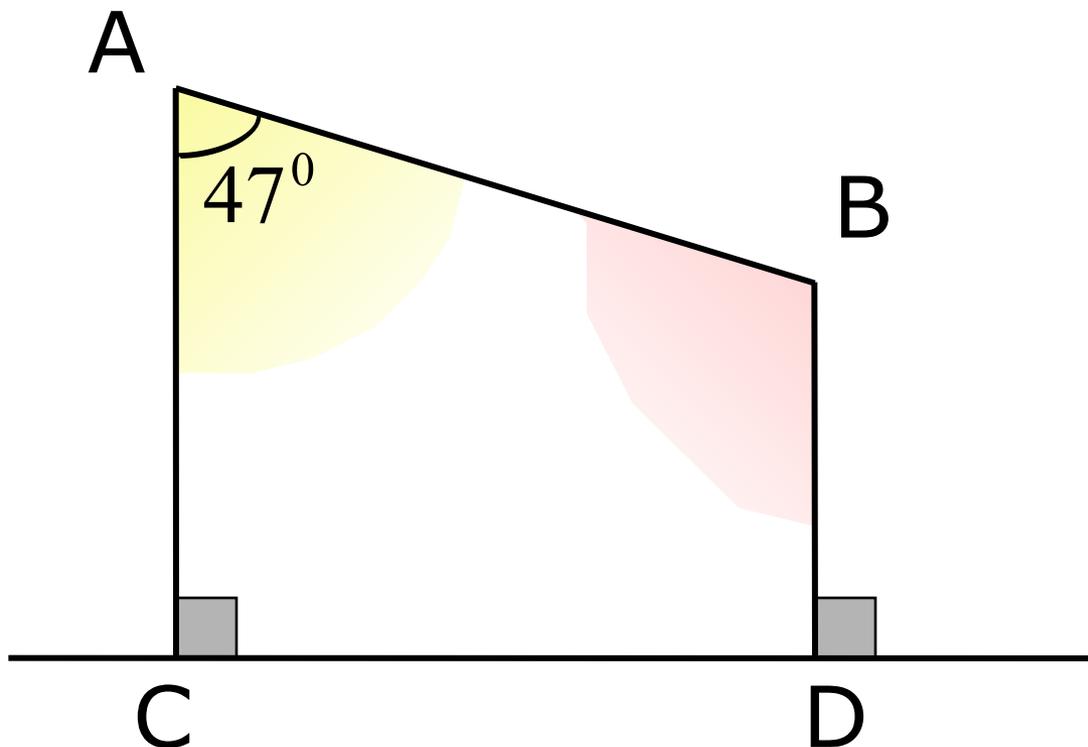
$a \parallel b$ ,  $c$ -  
секущая  $AC$  и  $BD$  - биссектрисы

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$AC \parallel BD$



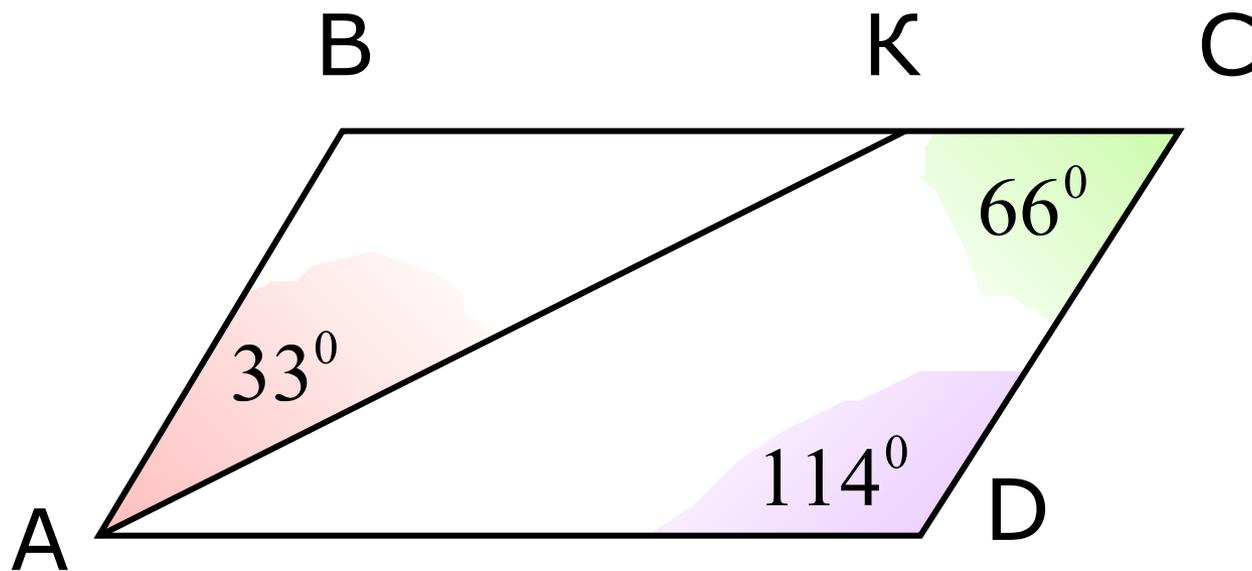
*Задача 6*



$\angle ABD$



*Задача 7*

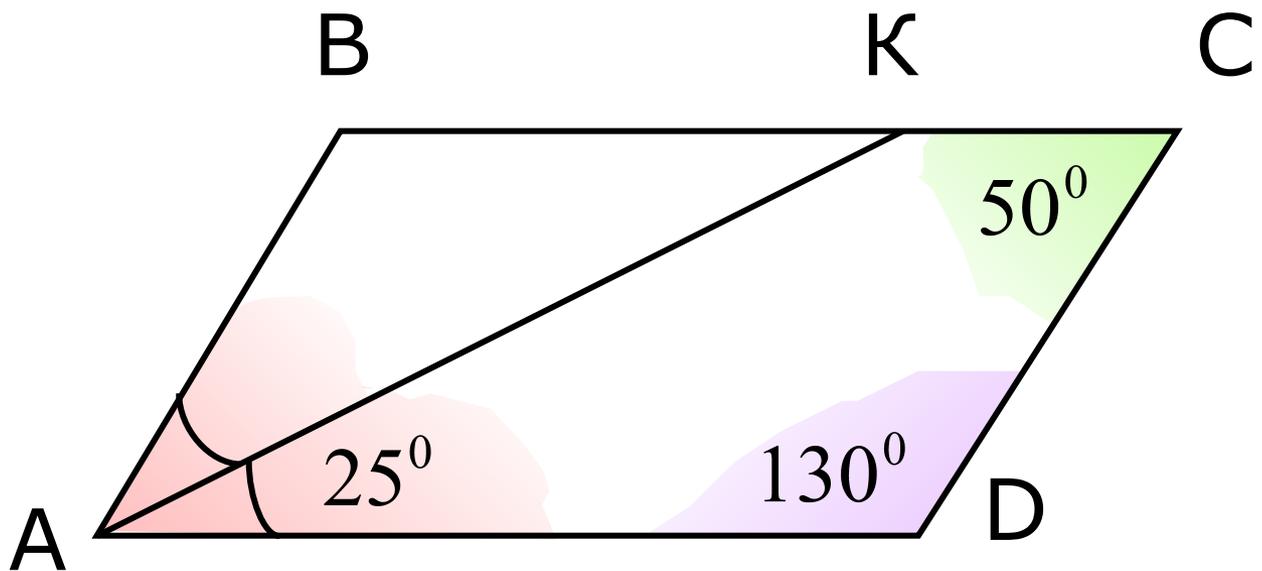


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AK-биссектриса



Задача 8

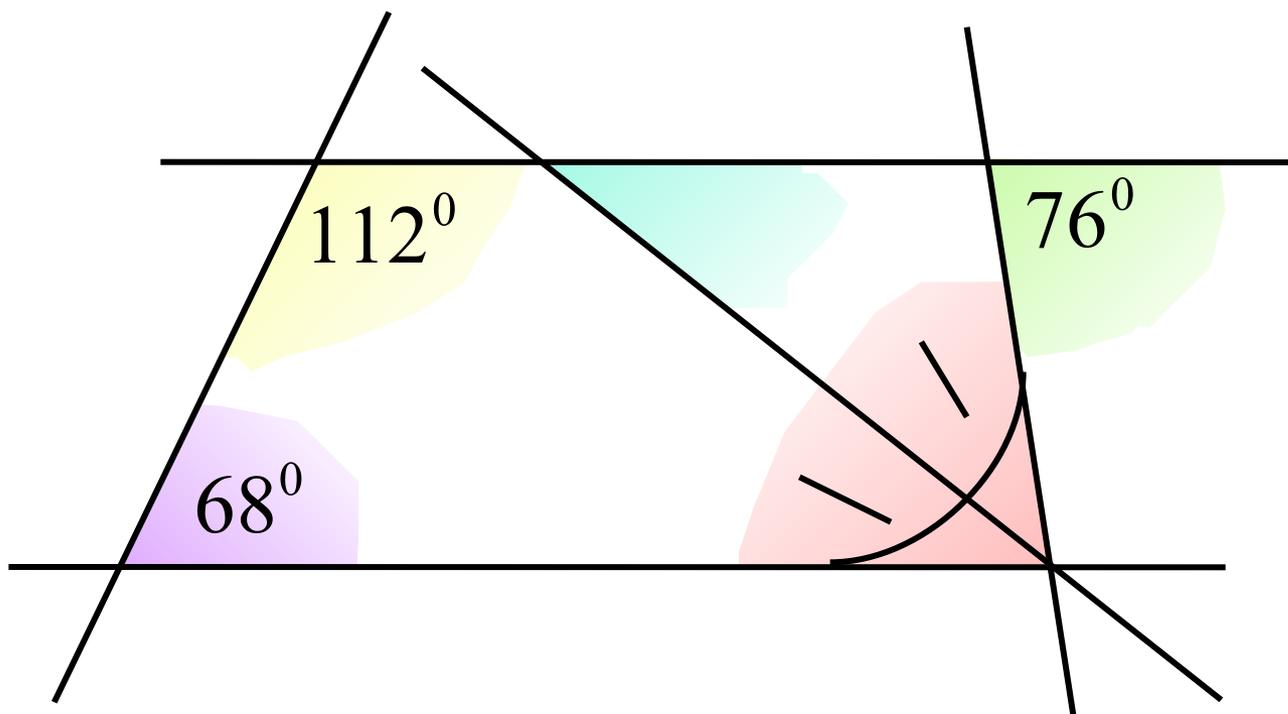


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$\angle AB\hat{E}$



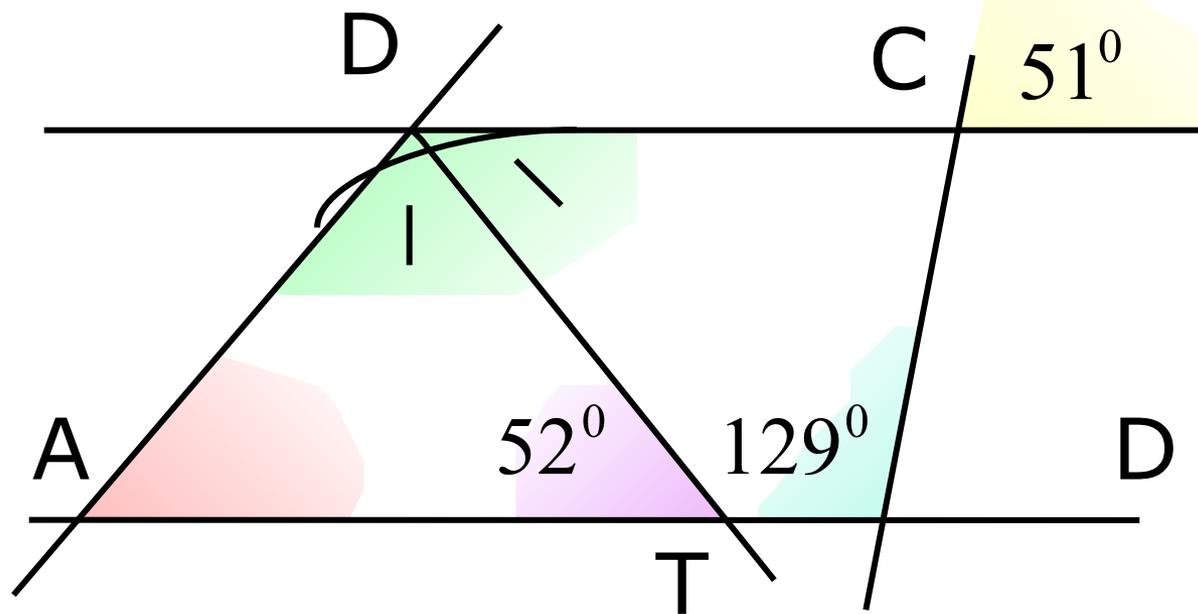
Задача 9



$\angle D\hat{E}C$



Задача 10



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$\angle DAT$



# Список литературы

**1. Ершова А.П., Голобородько В.В, Ершова А.С**

Самостоятельные и контрольные работы по алгебре и геометрии для 7 класса.-М:Илекса, 2004.-176с.

**2. Саврасова С.М., Ястребинецкий Г.А.**

Упражнения по планиметрии на готовых чертежах.- М.: просвещение, 1987.-112 с.: ил.

**3. Зив Б.Г. и др.**

Задачи по геометрии: Пособие для учащихся 7-11 кл. общеобразоват.учреждений.-М.:Просвещение, 2000.-271 с.: ил.

**4. Рабинович Е.М.**

Сборник задач на готовых чертежах.-К.:1996.-56с.

**5. Гаврилова Н.Ф.**

Поурочные разработки по геометрии: 7 класс.-2-е изд., перераб. и доп.-М.: ВАКО,2009.-304 с.

