

Урок геометрии по теме «Сумма углов треугольника»



- 7 класс, учебник Л.С.Атанасян, В.Ф.Бутузов, С.Б.Кадомцев, Москва, «Просвещение», 2006.
- МОУ СОШ № 85 г.Хабаровска
- Учителя математики Шекета Е.М.
Смольцаренко Л.А.

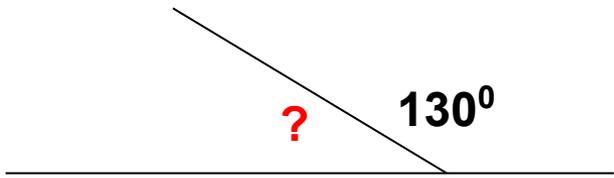


Рис.1

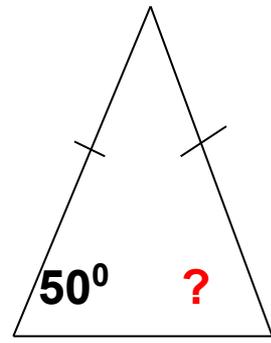
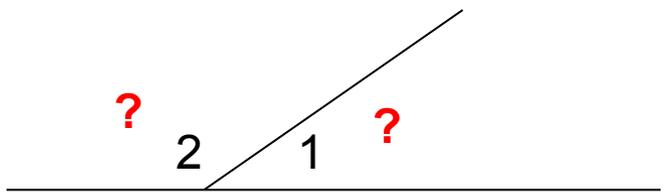


Рис.4



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

Рис.2

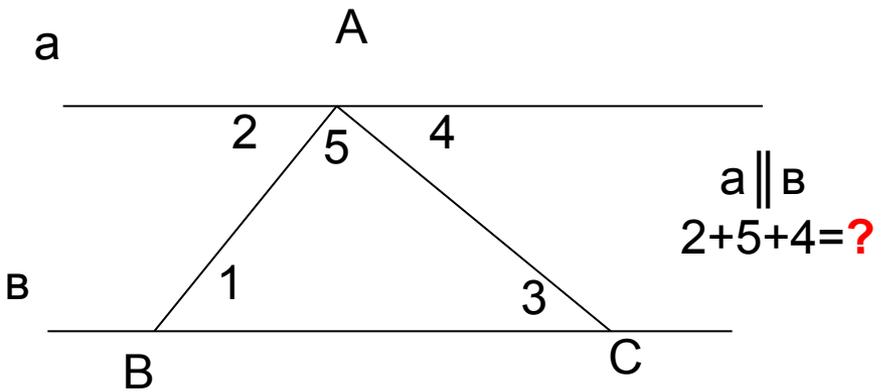


Рис.5

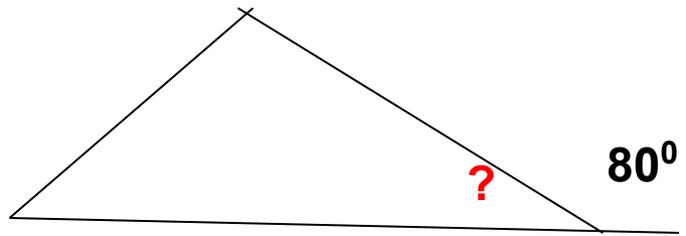


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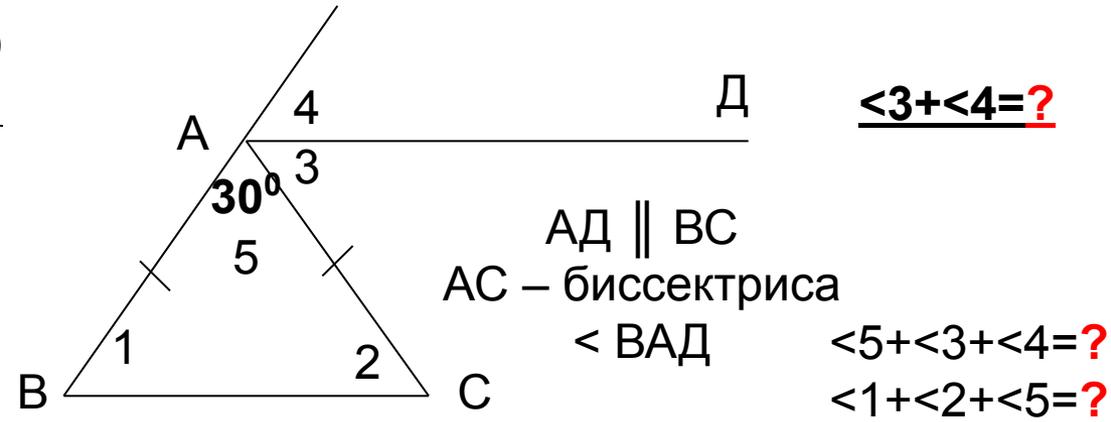
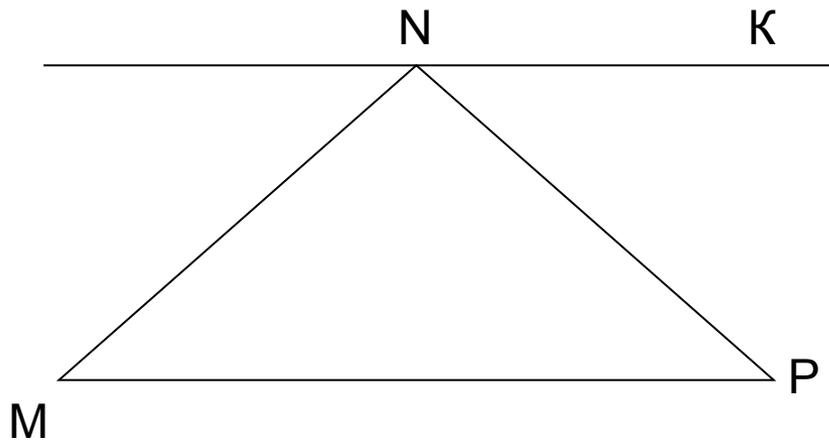
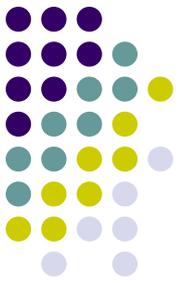


Рис.6



Дано: $\triangle MNP$
 Док-ть: $\angle M + \angle N + \angle P = 180^\circ$
 Док-во:



Через точку N проведем прямую $NK \parallel MP$,

ХА

$\angle 1 = \angle 2$ (н.л.) при $NK \parallel MP$ и секущей MN,

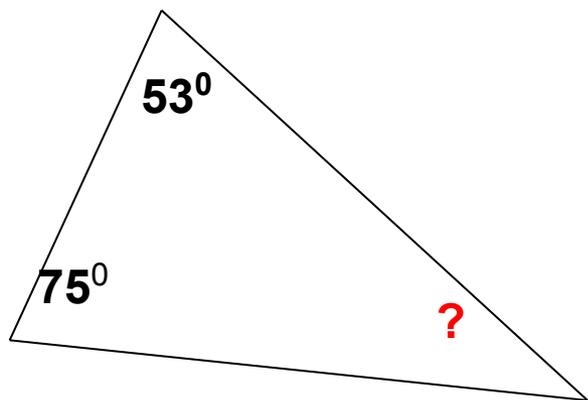
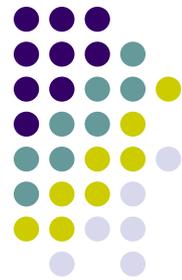
БА

$\angle 3 = \angle 4$ (н.л.) при $NK \parallel MP$ и секущей NP,
 $\angle 1 + \angle 5 + \angle 3 = 180^\circ$ (развернутый угол),

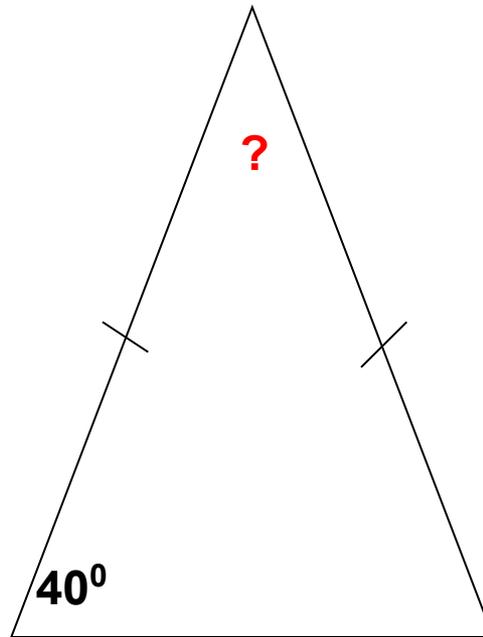
РОВ

$\angle 2 + \angle 5 + \angle 4 = 180^\circ$, значит $\angle M + \angle N + \angle P = 180^\circ$]].

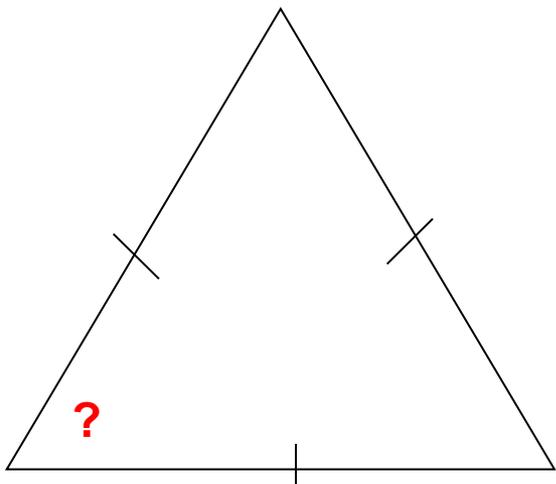
СК



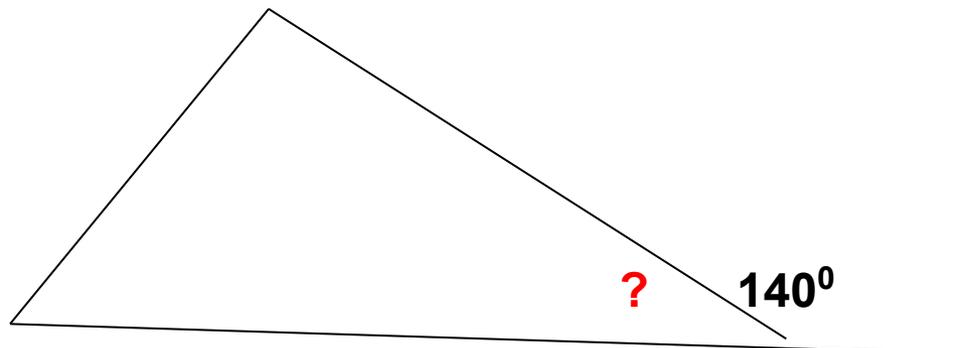
№1



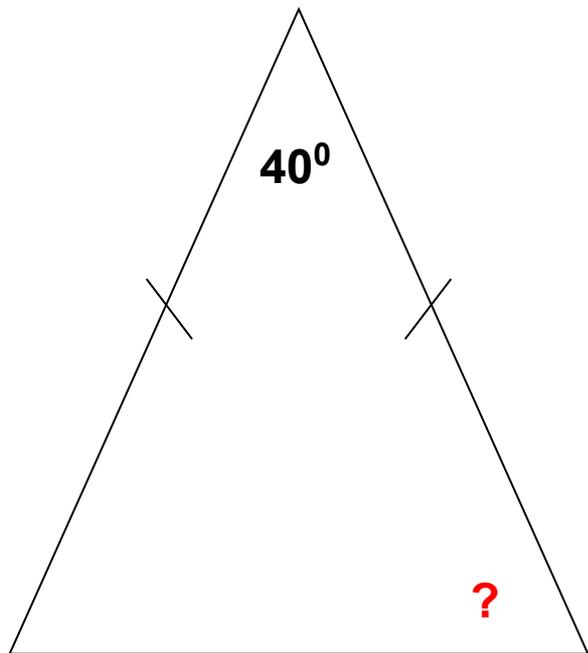
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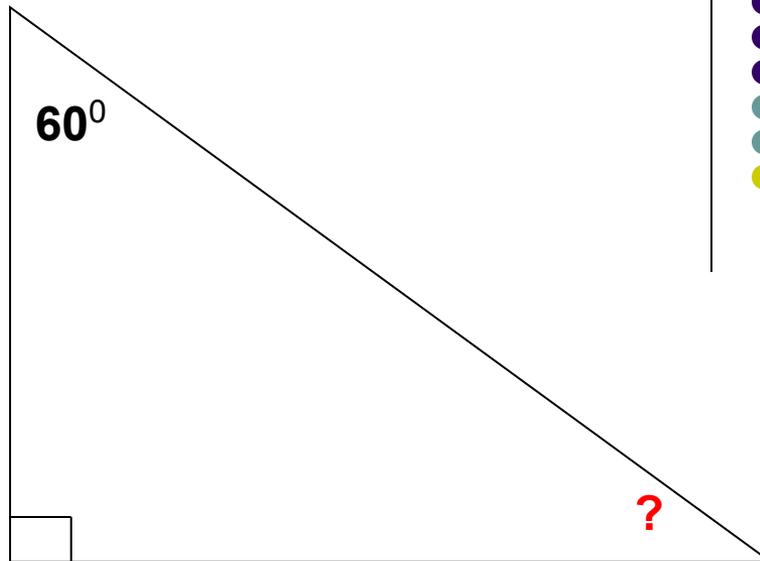
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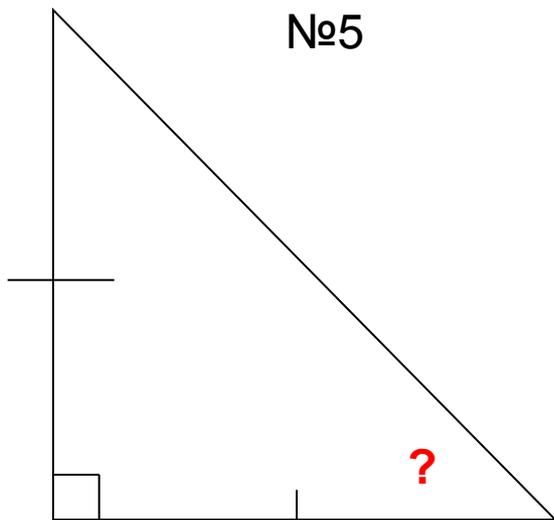
№4



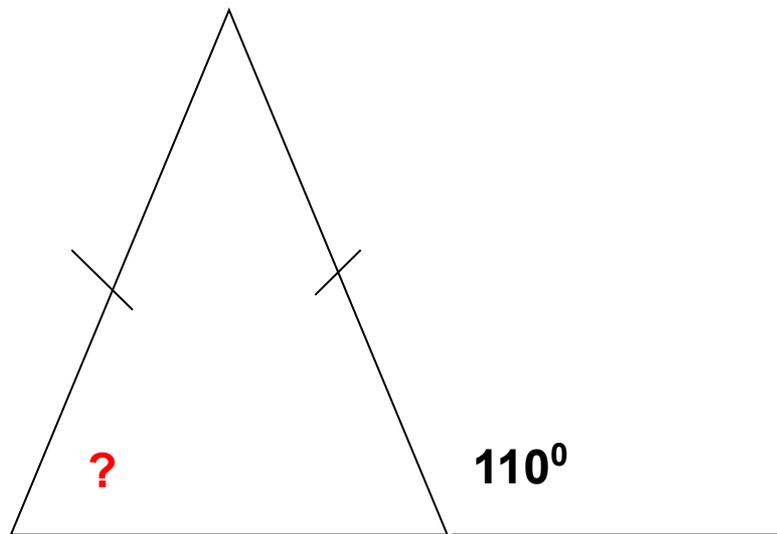
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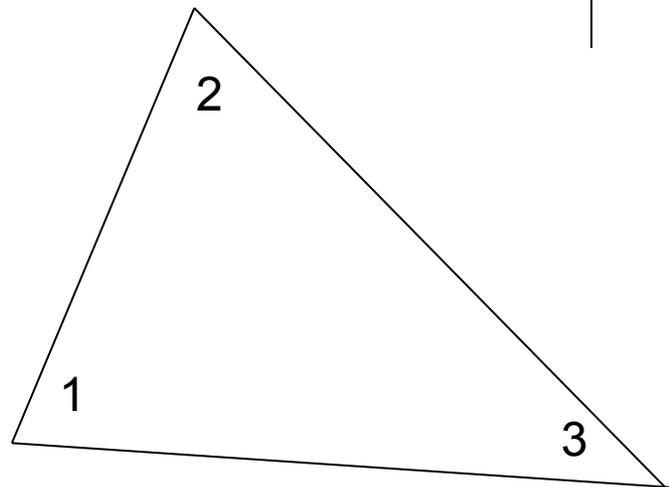
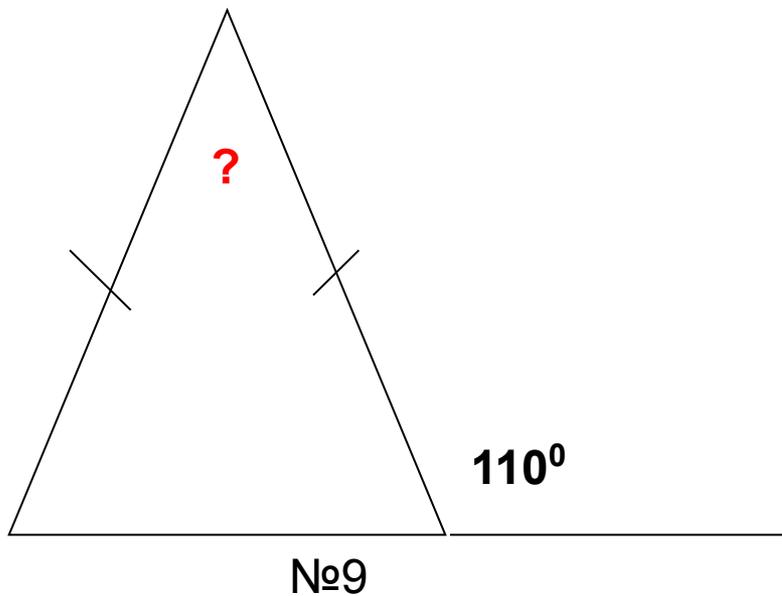
№6



№7



№8



$$\angle 1 : \angle 2 : \angle 3 = 2 : 3 : 4$$

№10 $\angle 1$

№11 $\angle 2$

№12 $\angle 3$



	В	Д	Е	К	Н	О	Ч	Ь	Я
1	42	128	180	64	100	62	53	75	52
2	120	90	40	100	180	80	50	60	30
3	100	120	90	30	110	60	180	70	55
4	40	80	140	180	20	30	60	120	130
5	140	70	180	35	40	20	150	120	90
6	180	60	90	45	120	150	130	30	70
7	90	135	180	120	65	55	65	30	45
8	180	120	110	140	35	90	70	45	150
9	110	180	55	140	65	45	120	125	15
10	20	90	9	25	40	80	60	180	30
11	180	30	40	60	20	90	9	80	100
12	9	180	30	40	130	80	20	60	100

ЯКОВ ДЬЯЧЕНКО





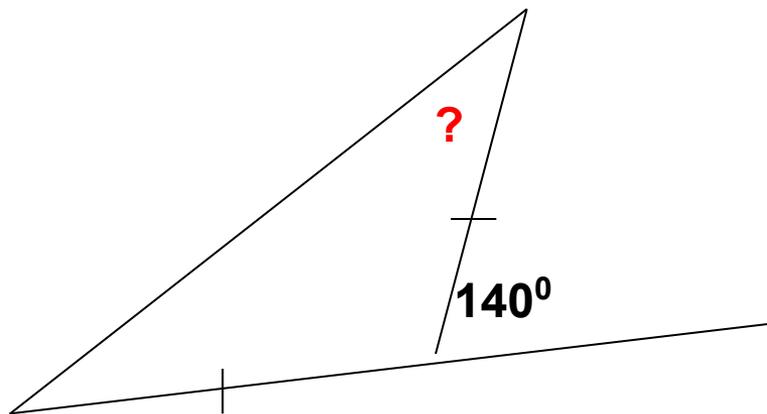
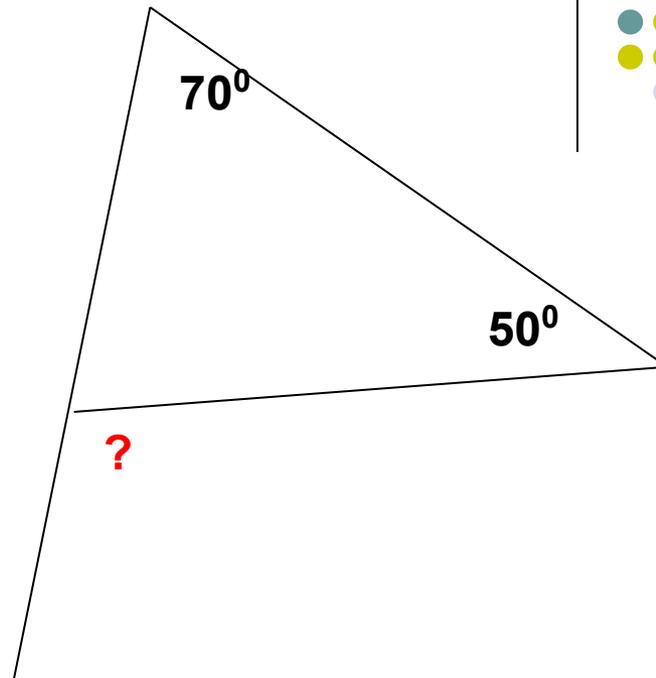
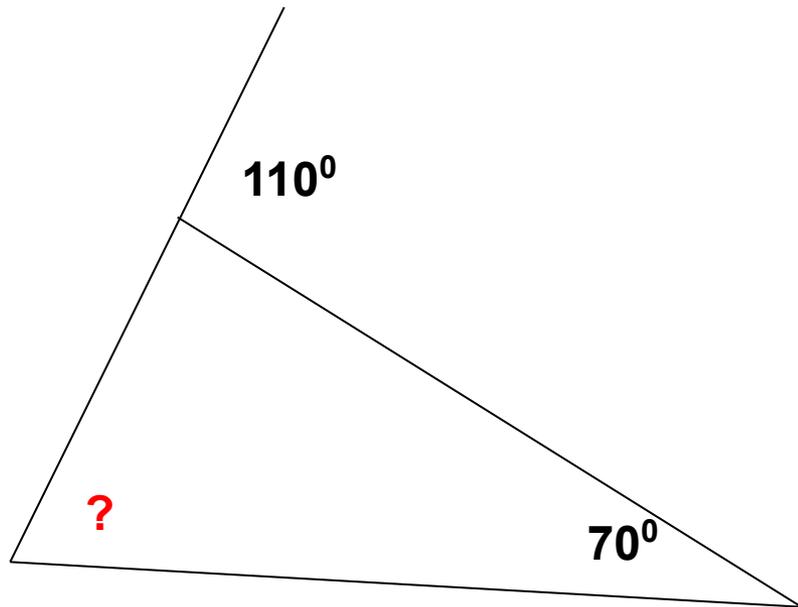
шаги алгоритма	баллы
<i>выбор способа решения</i>	1
<i>составление математической модели задачи</i>	1
<i>нахождение неизвестных</i>	1
<i>ответ на вопрос задачи</i>	1
ИТОГО	4

Решение № 227 (а)



- 1. Решение задачи уравнением
- 2. Составить уравнение:
 $x+2x+2x=180$
- 3. $x=36$
- 4. $36^0, 72^0, 72^0$

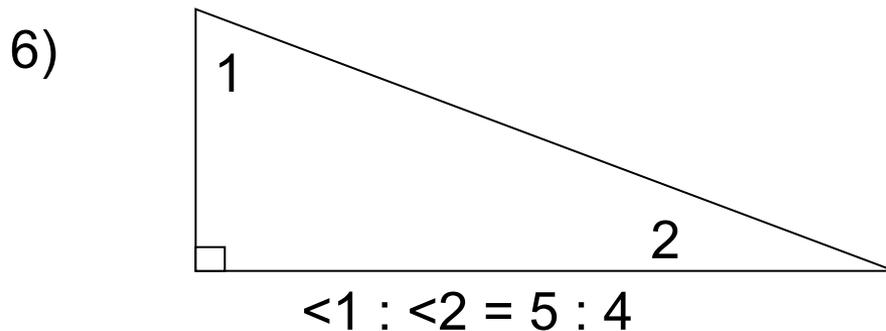
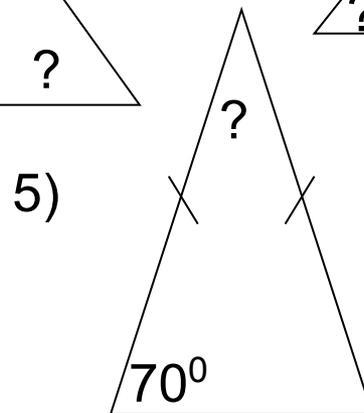
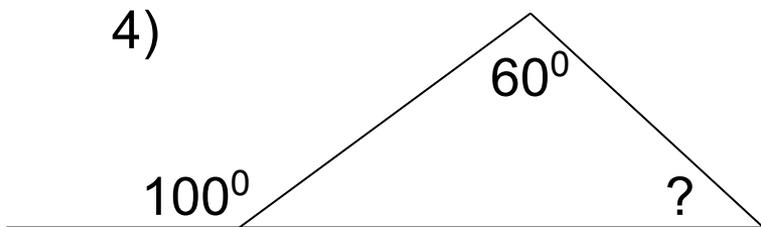
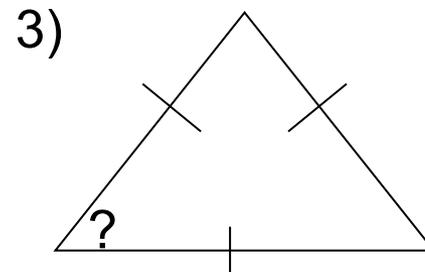
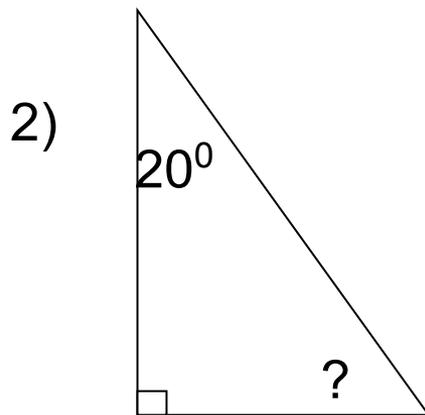
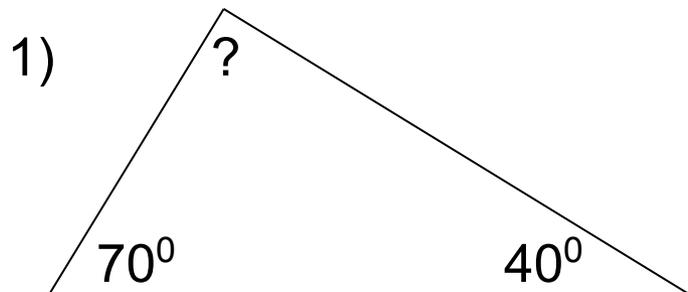
- 1. Решение задачи на части
- 2. Всего частей 5, их сумма 180^0
- 3. На одну часть приходится 36^0
- 4. $36^0, 72^0, 72^0$



Вариант №1



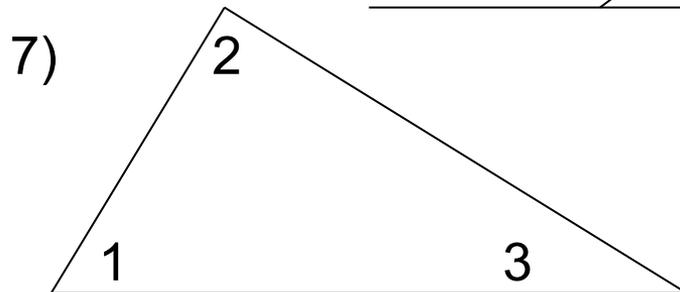
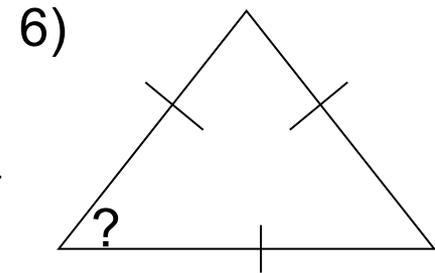
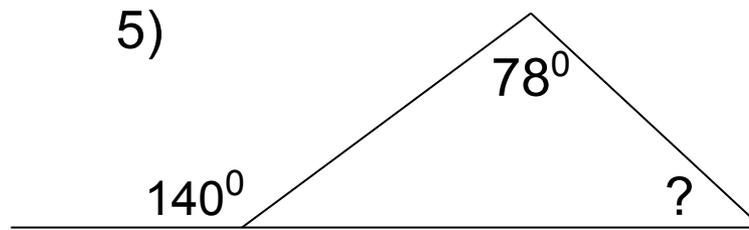
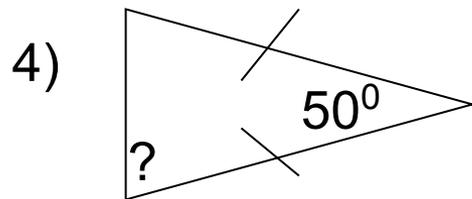
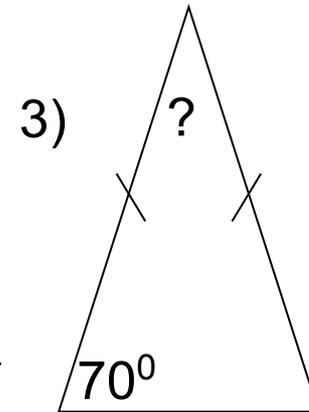
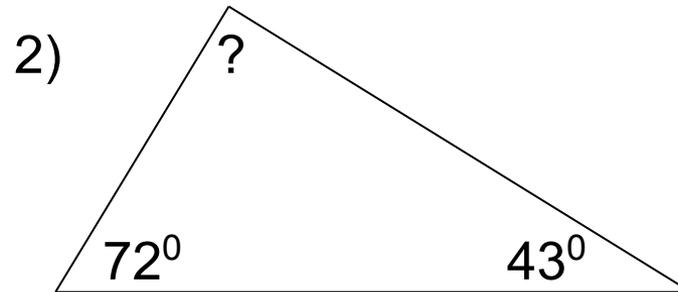
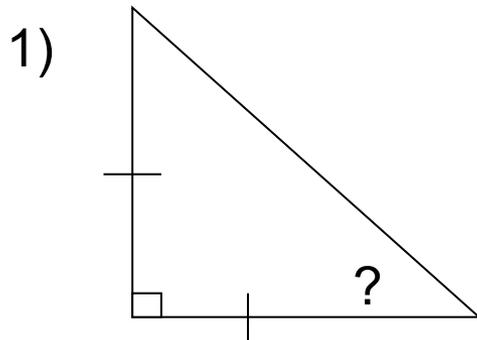
- Найти неизвестные углы.



Вариант №2



- Найти неизвестные углы

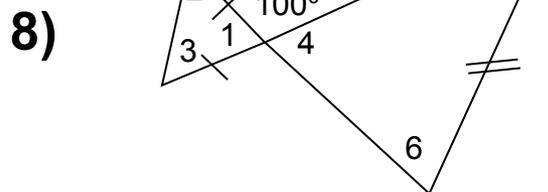
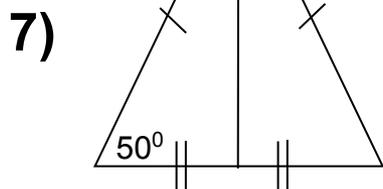
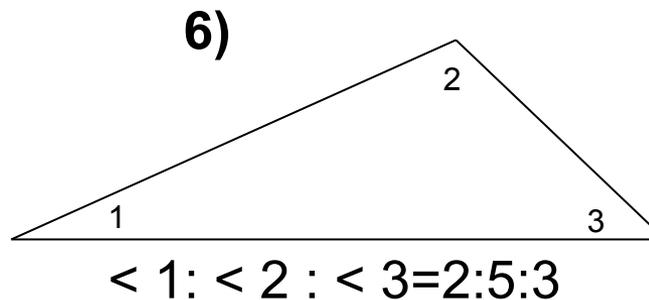
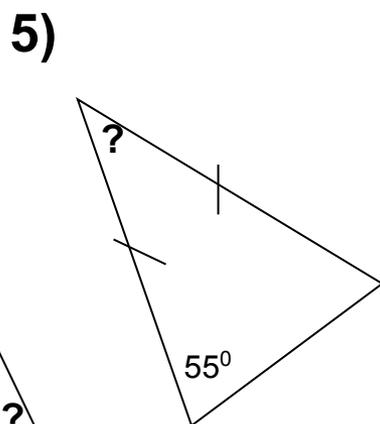
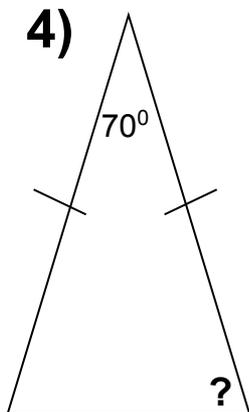
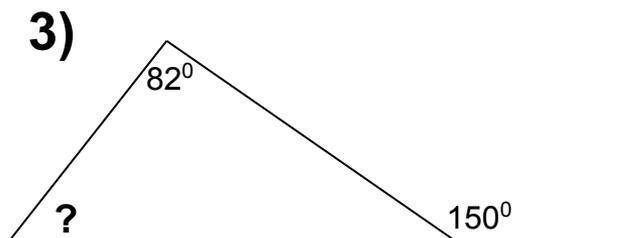
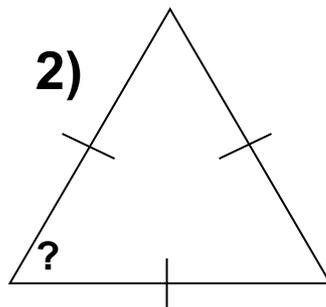
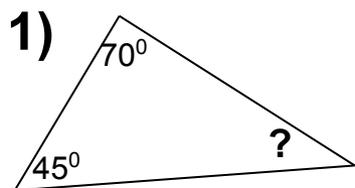


$$\angle 1 : \angle 2 : \angle 3 = 4 : 5 : 1$$

Вариант №3



- Найти неизвестные углы



Ответы математического диктанта



№1	№2	№3	№4	№5	№6	
					1	2
70	70	60	40	40	50	40

№1	№2	№3	№4	№5	№6	№7		
						< 1	< 2	< 3
45	65	40	65	62	60	72	90	18

№1	№2	№3	№4	№5	№6			№7	№8					
					<1	<2	<3		< 1	< 2	< 3	< 4	< 5	< 6
65	60	68	55	70	36	90	54	40	80	50	50	80	20	80