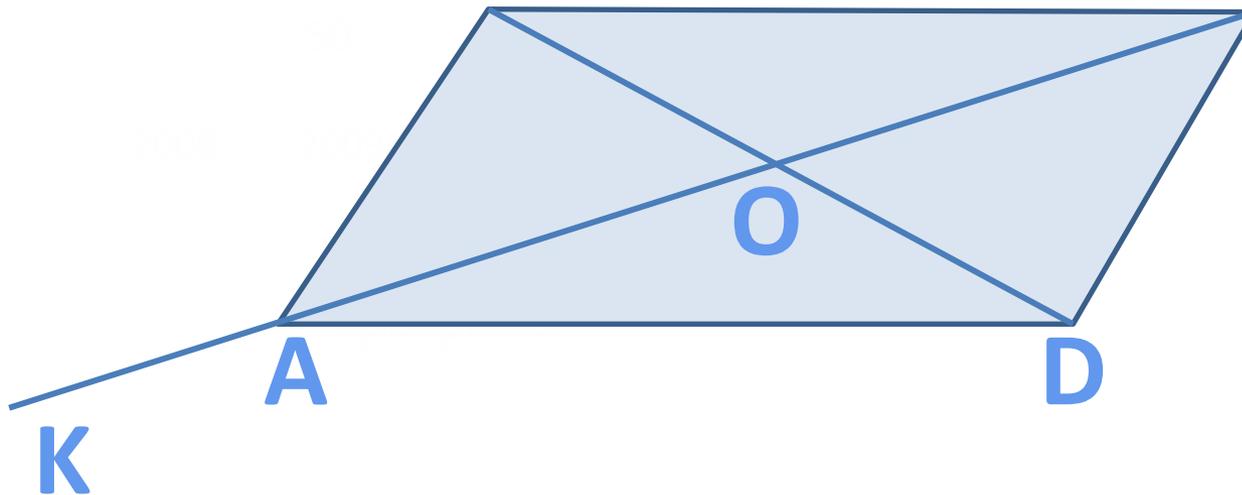


# Решение треугольников

*Учитель математики  
ГБОУ Школы №1592  
Крайнюк А.А.*

$ABCD$  — ЧЕТЫРЕУГОЛЬНИК,  $AB=CD$ ,  
 $AB \parallel CD$ ,  $\angle BOC = 135^\circ$ ,  
 $\angle KAB = 150^\circ$ ,  $CD = \sqrt{2}$ .

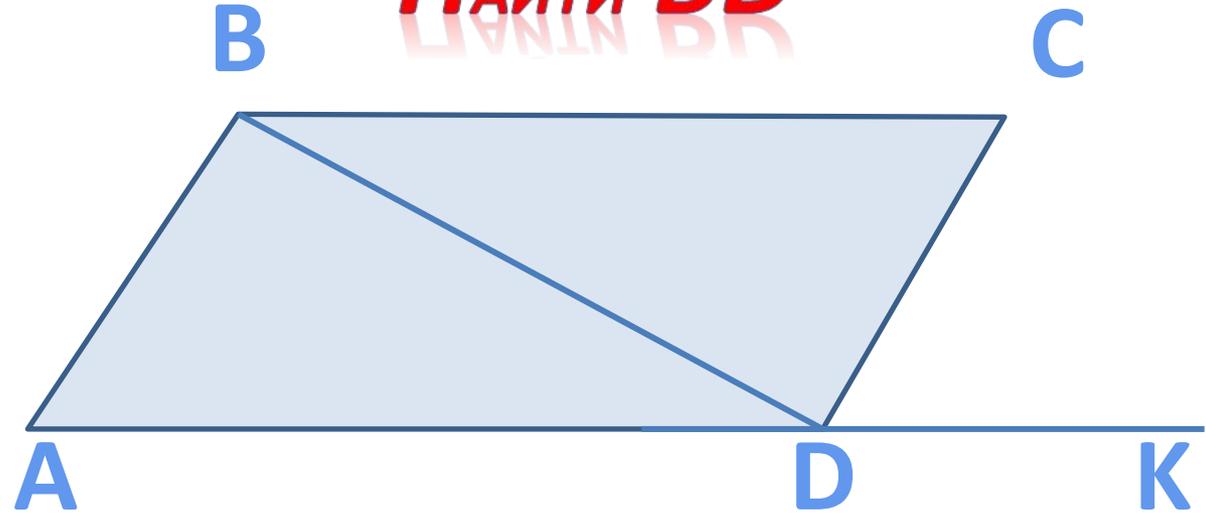
**В НАЙТИ  $BD$**



**Кратко**  
:

$ABCD$  – ЧЕТЫРЕХУГОЛЬНИК,  $AD \parallel BC$ ,  
 $AB \parallel CD$ ,  $\angle CDK = 60^\circ$ ,  
 $AD = 5$ ,  $AB = 3$ .

**НАЙТИ  $BD$**

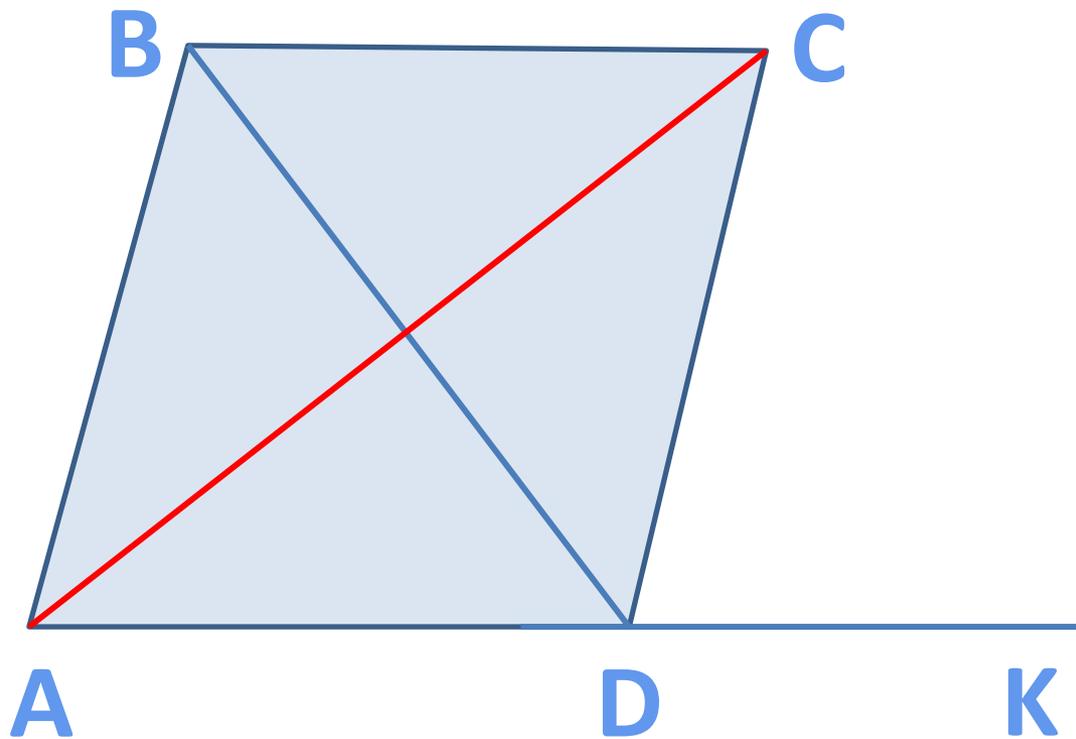


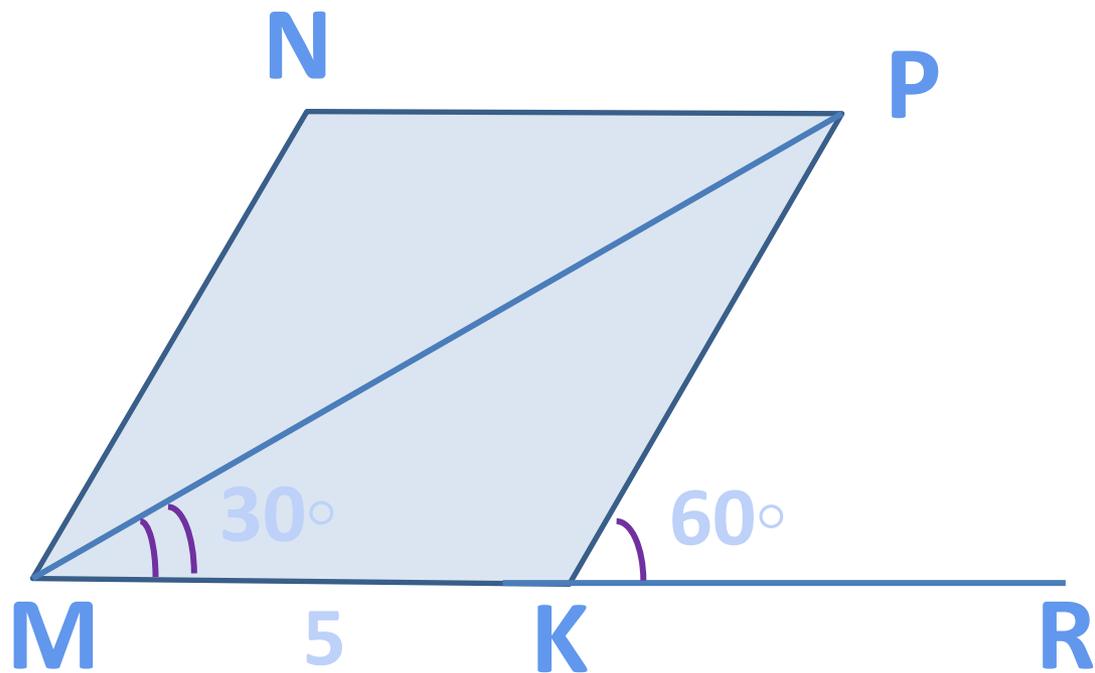
**Кратко**  
:

К  
Р  
А  
Т  
К  
О

$ABCD$  — ромб,  
 $\angle CDK = 60^\circ$ ,  $AD = 3$ .

Найти  $AC$





***MNRK – ПАРАЛЛЕЛОГРАММ***

***НАЙТИ  $MP$***

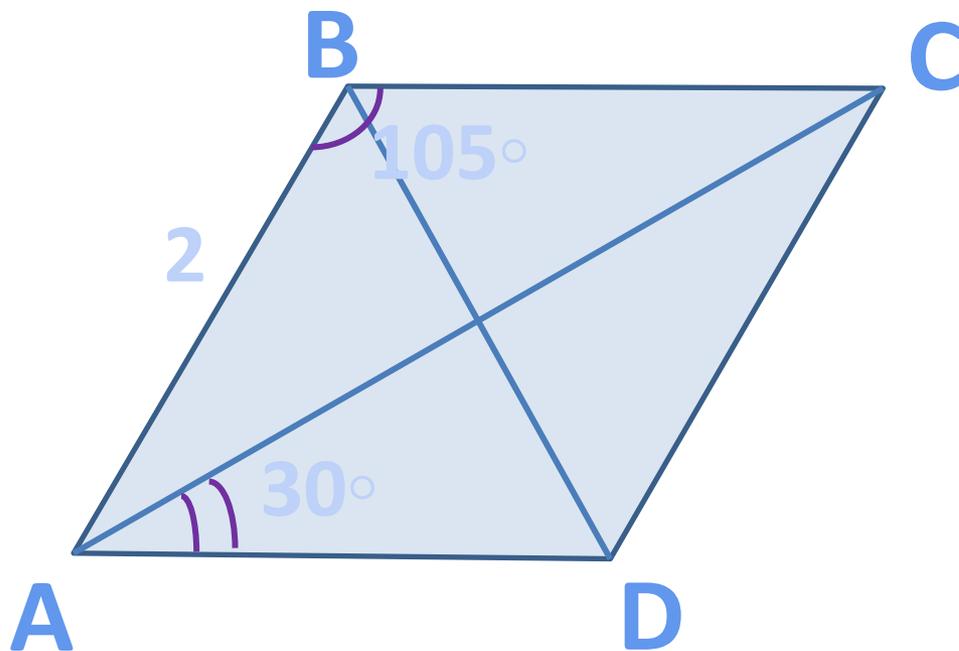
***Кратко  
:***

# Кратко НАЙТИ $\angle C$

sin	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	60'		1'	2'	3'
15°	0.2588	2605	2622	2639	2656	2672	2689	2706	2723	2740	2756	74°	3	6	8
16°	2756	2773	2790	2807	2823	2840	2857	2874	2890	2907	2924	73°	3	6	8
17°	2924	2940	2957	2974	2990	3007	3024	3040	3057	3074	3090	72°	3	6	8
18°	3090	3107	3123	3140	3156	3173	3190	3206	3223	3239	3256	71°	3	6	8
19°	3256	3272	3289	3305	3322	3338	3355	3371	3387	3404	0.3420	70°	3	5	8
20°	0.3420	3437	3453	3469	3486	3502	3518	3535	3551	3567	3584	69°	3	5	8
21°	3584	3600	3616	3633	3649	3665	3681	3697	3714	3730	3746	68°	3	5	8
22°	3746	3762	3778	3795	3811	3827	3843	3859	3875	3891	3907	67°	3	5	8
23°	3907	3923	3939	3955	3971	3987	4003	4019	4035	4051	4067	66°	3	5	8
24°	4067	4083	4099	4115	4131	4147	4163	4179	4195	4210	0.4226	65°	3	5	8
25°	0.4226	4242	4258	4274	4289	4305	4321	4337	4352	4368	4384	64°	3	5	8
26°	4384	4399	4415	4431	4446	4462	4478	4493	4509	4524	4540	63°	3	5	8
27°	4540	4555	4571	4586	4602	4617	4633	4648	4664	4679	4695	62°	3	5	8
28°	4695	4710	4726	4741	4756	4772	4787	4802	4818	4833	4848	61°	3	5	8
29°	4848	4863	4879	4894	4909	4924	4939	4955	4970	4985	0.5000	60°	3	5	8
	60'	54'	48'	42'	36'	30'	24'	18'	12'	6'	0'	cos	1'	2'	3'

***ABCD*** – ПАРАЛЛЕЛОГРАММ

**Найти *BC***

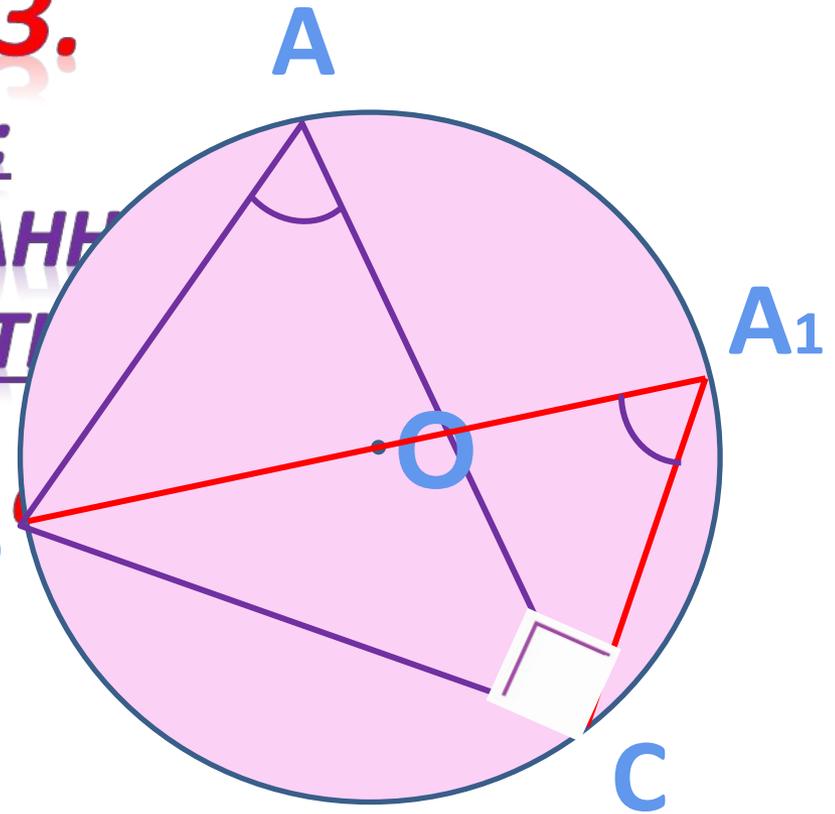


**Кратко  
:**

№1033.

ДАНО:  
СЛУЧАЙ  
 $\triangle ABC$  – вписанный  
ДОКАЗАТЬ

$$\frac{BC}{\sin A} = 2R$$

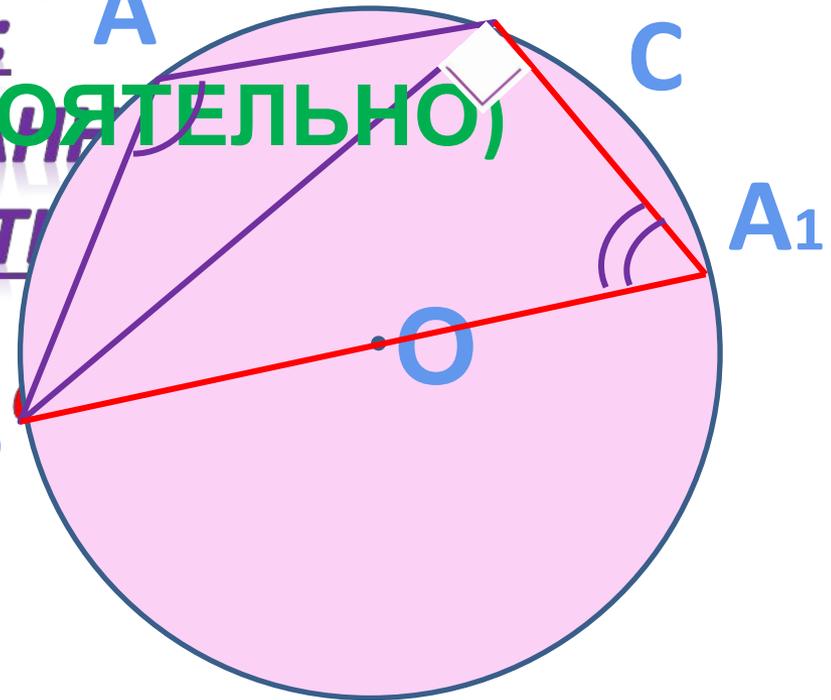


# №1033. ПОЛУЧАЙ

ДАНО:  $\triangle ABC$  — вписанный (самостоятельно)

ДОКАЗАТЬ:

$$\frac{BC}{\sin A} = 2R$$

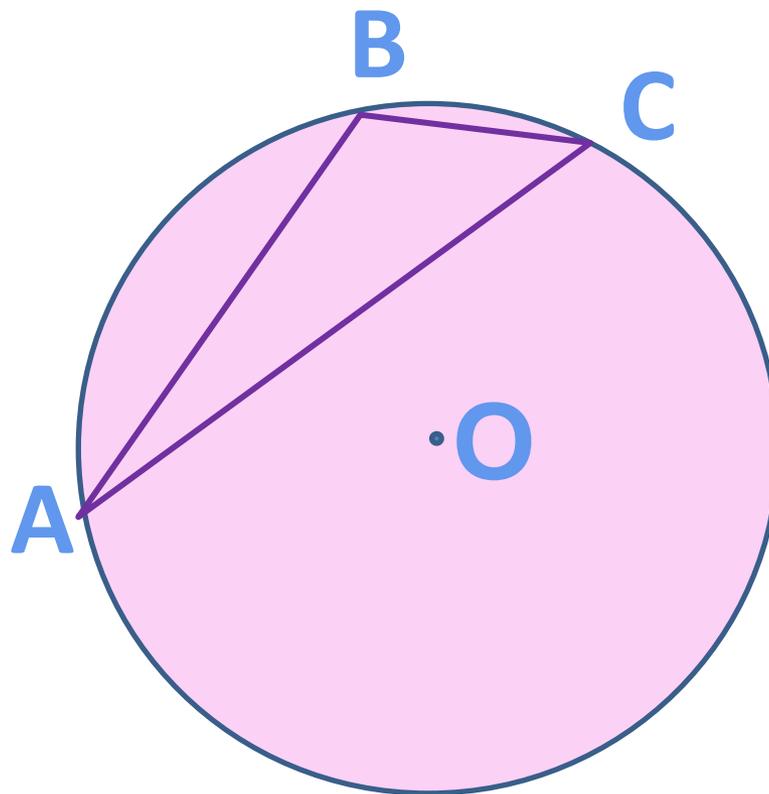


# ЗАДАЧА 1.

В ТРЕУГОЛЬНИКЕ ABC:  $\angle A = 20^\circ$ ,  $\angle B = 40^\circ$ ,

$$AB = 12 \text{ CM}$$

**Найти радиус окружности, описанной около  
этого треугольника**



<b>sin</b>	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	60'		1'	2'	3'	
75°	9659	9664	9668	9673	9677	9681	9686	9690	9694	9699	9703	14°	1	1	2	
76°	9703	9707	9711	9715	9720	9724	9728	9732	9736	9740	9744	13°	1	1	2	
77°	9744	9748	9751	9755	9759	9763	9767	9770	9774	9778	9781	12°	1	1	2	
78°	9781	9785	9789	9792	9796	9799	9803	9806	9810	9813	9816	11°	1	1	2	
79°	9816	9820	9823	9826	9829	9833	9836	9839	9842	9845	0.9848	10°	1	1	2	
80°	0.9848	9851	9854	9857	9860	9863	9866	9869	9871	9874	9877	9°	0	1	1	
81°	9877	9880	9882	9885	9888	9890	9893	9895	9898	9900	9903	8°	0	1	1	
82°	9903	9905	9907	9910	9912	9914	9917	9919	9921	9923	9925	7°	0	1	1	
83°	9925	9928	9930	9932	9934	9936	9938	9940	9942	9943	9945	6°	0	1	1	
84°	9945	9947	9949	9951	9952	9954	9956	9957	9959	9960	9962	5°	0	1	1	
85°	9962	9963	9965	9966	9968	9969	9971	9972	9973	9974	9976	4°	0	0	1	
86°	9976	9977	9978	9979	9980	9981	9982	9983	9984	9985	9986	3°	0	0	0	
87°	9986	9987	9988	9989	9990	9990	9991	9992	9993	9993	9994	2°	0	0	0	
88°	9994	9995	9995	9996	9996	9997	9997	9997	9998	9998	0.9998	1°	0	0	0	
89°	9998	9999	9999	9999	9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0°	0	0	0	
90°	1.0000	математика для блондинок										<a href="http://www.webstaratel.ru">www.webstaratel.ru</a>				
<b>sin</b>	60'	54'	48'	42'	36'	30'	24'	18'	12'	6'	0'	<b>cos</b>	1'	2'	3'	

# *Домашнее задание*

- *№1033, №1034, №1035,*
  - *П.100 – прочитать,*
  - *№1037, №1060(а)*
- 
- The background features a vibrant, abstract design with wavy, overlapping bands of color in shades of green, yellow, orange, and red. Scattered across these bands are several sets of concentric circles, each with a different color palette, creating a dynamic and artistic visual effect.