

:			
	$BC = 3\sqrt{13}$, $AC = 6$, $AB = 9$:	ABC	
	$AM = 3$: [AB]	M	
.N	[AC] (BC)	M	
	.O	(CM) (BN)	
		. ABC	.1
		. AN = 2 :	.2
		. MN BN	.3
		. BMN	.4
		. $\frac{BO}{NO}$.5
		. BO	.6
. AJ = 4	[AC] J	. AI = 6 [AB] I	.7
		. (IJ) // (BC) :	.8
:			
	. (BC) A	H	ABC -I
		. $AH = \frac{\sqrt{3}}{2} AB$:	.1
	. AB	ABC	.2
	. C	B D	- II
		. ABD	.1
		. $AD = \sqrt{3} AB$:	.2
		. ACD ABC	.3
	. (AD) C	K	.4
		. AHK	
:			
	. A	ABC	
	. (BC) A	H	
		:	.1
		$AH \times BC = AB \times AC$; $\frac{1}{AH^2} = \frac{1}{AB^2} + \frac{1}{AC^2}$	
		$AB^2 = BH \times BC$; $AC^2 = CH \times CB$; $AH^2 = BH \times CH$.	
	:	, ABC	r .2
		. $r = \frac{1}{2}(AB + AC - BC)$	



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الدورة الأولى