

ESERCIZI SUI TRIANGOLI QUALSIASI

Risolvere il triangolo ABC e darne una rappresentazione grafica in scala opportuna nei seguenti casi:

dati		risultati	
1	AB = 550,87 m BC = 596,80 m BCA = 62°45'16"	AC = 421,01 m CAB = 74°24'13" ABC = 42°50'31" S = 111774,62 m ²	AC = 125,11 m CAB = 105°35'47" ABC = 11°38'57" S = 33191,19 m ²
2	AB = 170,81 m BC = 165,92 m AC = 199,85 m	CAB = 58,3042 ^g ABC = 80,8838 ^g BCA = 60,8120 ^g S = 13536,34 m ²	
3	AC = 96,61 m BCA = 109,4719 ^g CAB = 61,1005 ^g	AB = 214,24 m BC = 177,43 m ABC = 29,4276 ^g S = 8476,30 m ²	
4	AB = 591,63 m AC = 313,20 m ABC = 23°43'24"	BC = 745,20 m BAC = 106°48'54" ACB = 49°27'42"	BC = 338,07 m BAC = 25°44'19" ACB = 130°32'18"
5	BC = 96,16 m BCA = 70,6546 ^g CAB = 62,1719 ^g	AB = 103,94 m AC = 100,96 m ABC = 67,1735 ^g S = 4347,63 m ²	
6	AB = 165,37 m ABC = 115°56'15" BCA = 30°06'09"	AC = 296,51 m BC = 184,19 m CAB = 33°57'36" S = 13695,35 m ²	
7	AB = 196,65 m BC = 190,02 m S = 12802,63 m ²	CAB = 73,2133 ^g ABC = 48,0596 ^g BCA = 78,7271 ^g AC = 142,64 m	
8	AC = 465,88 m CAB = 67°45'19" S = 123635,69 m ²	AB = 573,44 m BC = 586,18 m BCA = 64°53'06" ABC = 47°21'35"	
9	AC = 185,37 m AB = 96,85 m BC = 115,37 m	CAB = 35,6172 ^g ABC = 134,9850 ^g BCA = 29,3978 ^g S = 4764,21 m ²	
10	AC = 135,96 m BC = 178,85 m CAB = 70,1009 ^g	AB = 193,02 m ABC = 47,4203 ^g BCA = 82,4788 ^g S = 11700,65 m ²	
11	AB = 160,05 m BC = 99,98 m ABC = 90°40'15"	AC = 189,70 m CAB = 31°48'11" BCA = 57°31'34" S = 8000,35 m ²	
12	AC = 450,19 m BC = 630,09 m S = 99225,47 m ²	CAB = 100,0044 ^g ABC = 50,6672 ^g BCA = 49,3284 ^g AB = 440,82 m	
13	AC = 125,65 m BC = 188,52 m AB = 170,09 m	CAB = 86,2220 ^g ABC = 45,1265 ^g BCA = 68,6515 ^g S = 10436,62 m ²	
14	BC = 89,261 m AC = 96,268 m BCA = 109,5981 ^g	CAB = 43,1350 ^g ABC = 47,2669 ^g AB = 140,770 m S = 4247,751 m ²	

S superficie del triangolo.

Dati		risultati	
15	AB = 88,45 m AC = 44,76 m ABC = 30,8345 ^g	BC = 60,75 m CAB = 43,5490 ^g BCA = 125,6165 ^g S = 1250,99 m ²	BC = 95,80 m CAB = 94,7820 ^g BCA = 74,3835 ^g S = 1972,76 m ²
16	AC = 47,26 m BCA = 47°15'32" CAB = 63°25'44"	BC = 45,18 m AB = 37,10 m ABC = 69°18'44" S = 784,08 m ²	
17	AB = 52,97 m BC = 58,91 m ABC = 59,7619 ^g	AC = 50,88 m CAB = 76,7592 ^g BCA = 63,4789 ^g S = 1258,81 m ²	
18	AB = 50,26 m CAB = 62,7656 ^g S = 939,53 m ²	BC = 45,26 m AC = 44,84 m BCA = 75,3461 ^g ABC = 61,8883 ^g	
19	AB = 652,23 m AC = 405,29 m S = 120927,03 m ²	BC = 613,41 m CAB = 73,5505 ^g BCA = 85,1258 ^g ABC = 41,3237 ^g	
20	AB = 48,37 m CAB = 66,4526 ^g S = 1028,90 m ²	BC = 48,66 m AC = 49,22 m BCA = 65,8134 ^g ABC = 67,7340 ^g	
21	BC = 320,24 m ABC = 32°45'13" S = 22415,34 m ²	AB = 258,75 m AC = 173,58 m CAB = 53°45'15" BCA = 93°29'32"	
22	AB = 47,32 m BC = 83,29 m S = 1294 m ²	AC = 56,84 m CAB = 117,5788 ^g ABC = 45,6045 ^g BCA = 36,8167 ^g	
23	BC = 87,35 m BCA = 65,4726 ^g S = 2215,27 m ²	AC = 59,22 m AB = 76,14 m CAB = 88,1132 ^g ABC = 46,4142 ^g	
24	AB = 48,32 m AC = 53,61 m R = 40,09 m (*)	BC = 78,71 m CAB = 112,1998 ^g BCA = 41,1772 ^g ABC = 46,6230 ^g S = 1271,51 m ²	
25	R = 138,25 m (*) AB = 253,25 m ABC = 65,8626 ^g	AC = 237,69 m BC = 224,79 m CAB = 60,4310 ^g BCA = 73,7064 ^g S = 24468,69 m ²	
26	AC = 101,23 m BCA = 50,7506 ^g r = 28,06 m (*)	AB = 87,11 m BC = 119,13 m CAB = 86,7572 ^g ABC = 62,4922 ^g S = 4313,78 m ²	
27	AB = 134,89 m ABC = 70,5136 ^g r = 45,51 m (*)	AC = 175,80 m BC = 188,11 m CAB = 81,3202 ^g BCA = 48,166 ^g S = 11350,11 m ²	
28	BC = 68,373 m AC = 71,094 m ABC = 66,6489 ^g	AB = 73,565 m CAB = 62,6465 ^g BCA = 70,7046 ^g S = 2177,631 m ²	

Dati	risultati	
29 AB = 65,394 m BC = 47,112 m S = 643,851 m ²	AC = 29,971 m CAB = 45,6361 ^g ABC = 27,4517 ^g BCA = 126,9122 ^g	
30 AB = 98,13 m ABC = 125,4729 ^g BCA = 35,9863 ^g	BC = 104,26 m AC = 168,73 m CAB = 38,5408 ^g S = 4711,31 m ²	
31 BC = 137,89 m BCA = 144,9472 ^g S = 6533,25 m ²	AB = 238,34 m AC = 124,53 m CAB = 29,0219 ^g ABC = 26,0309 ^g	
32 AC = 48,945 m CAB = 119,2725 ^g S = 869,726 m ²	BC = 69,774 m AB = 37,232 m ABC = 46,7052 ^g BCA = 34,0223 ^g	
33 AB = 98863 m BC = 106,210 m AC = 88,812 m	S = 4090,028 m ² CAB = 76,3254 ^g ABC = 56,8581 ^g BCA = 66,8165 ^g	
34 S = 4609,91 m ² ABC = 75,8404 ^g BC = 90,36 m	AC = 113,48 m AB = 109,85 m CAB = 52,9982 ^g BCA = 71,1614 ^g	
35 AC = 831,09 m ABC = 60,4725 ^g CAB = 54,0975 ^g	AB = 995,16 m BC = 767,50 m BCA = 85,4200 ^g S = 310614,05 m ²	
36 AC = 113,29 m BC = 104,54 m BCA = 71,0046 ^g	AB = 115,52 m CAB = 60,4034 ^g ABC = 68,5920 ^g S = 5318,01 m ²	
37 AB = 106,07 m BC = 100,55 m BCA = 50,6870 ^g	AC = 148,34 m CAB = 47,3877 ^g ABC = 101,9253 ^g S = 5330,23 m ²	
38 BC = 59,835 m ABC = 68,0557 ^g R = 50,360 m (*)	AB = 99,813 m AC = 88,304 m CAB = 40,4962 ^g BCA = 91,4481 ^g S = 2618,035 m ²	
39 BC = 89,584 m AC = 121,233 m R = 83,592 m (*)	AB = 164,046 m BCA = 112,3532 ^g ABC = 51,6457 ^g CAB = 36,0011 ^g S = 5328,355 m ²	AB = 40,672 m BCA = 15,6446 ^g ABC = 148,3543 ^g CAB = 36,0011 ^g S = 1321,070 m ²
40 AC = 192,135 m CAB = 88,1118 ^g r = 48,014 m (*)	AB = 138,918 m BC = 215,182 m BCA = 43,7471 ^g ABC = 68,1411 ^g S = 13113,455 m ²	
41 AC = 82,126 m BCA = 92,8334 ^g R = 47,325 m (*)	AB = 94,051 m BC = 55,980 m CAB = 40,2885 ^g ABC = 66,8781 ^g S = 2284,171 m ²	
42 AB = 172,150 m ABC = 71,2256 ^g r = 47,990 m (*)	BC = 155,672 m AC = 174,529 m CAB = 59,2876 ^g BCA = 69,4868 ^g S = 12053,923 m ²	

S superficie del triangolo.

(*) r - raggio circonferenza inscritta, R - raggio circonferenza circoscritta.