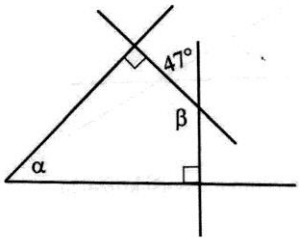
Kut i trokut

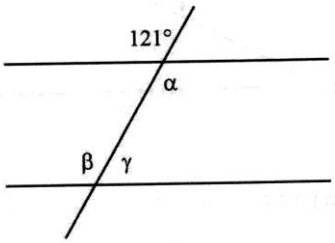
1. Nacrtaj po volji tupokutan trokut trokut i označi njegove vrhove, stranice i kutove.
2. Konstruiraj jednakostraničan trokut sa stranicom duljine 52 mm**.**
3. Konstruiraj jednakokračan trokut kojemu je osnovica 35 mm, a krakovi 6 cm.
4. U nekom trokutu ABC je $\alpha = 56^\circ 12', \gamma = 93^\circ 58'$. Izračunaj kut β .
5. Jedan šiljasti kut pravokutnog trokuta iznosi $38^\circ 14'$. Izračunaj veličinu drugog šiljastog kuta tog trokuta.
6. Konstruiraj kutove od 15˚, 60°, 30°, 75°, 120°, 105°, 45°.
7. Konstruiraj trokut ABC ako je:
   a) b = 48 mm, c = 3.5 cm, i $\alpha = 45^\circ$
   b) c = 27 mm, a = 3.5 cm, i $\beta = 75^\circ$
   c) a = 37 mm, b = 3.5 cm, i $\gamma = 60^\circ$
   d) a = 5 cm, b = 6 cm, c = 4.2 cm.
8. Konstruiraj trokut i sve tri njegove visine: c = 2.8 cm, $\alpha = 45^o$ i $\beta = 120^o$. Izračunaj veličinu trećeg kuta tog trokuta.

9. U nekom trokutu ABC $\alpha = 21°15'$ i $\gamma = 23°47'$. Izračunaj veličinu trećeg kuta.
10. Koliko stupnjeva imaju kutovi α, β i γ?

a)

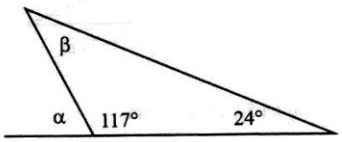


b)

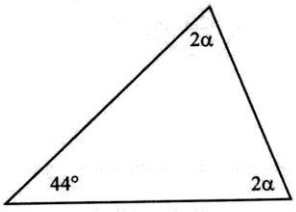


11. Izračunaj kutove α i β:

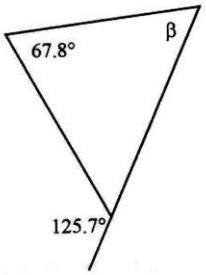
a)



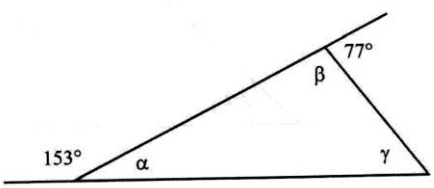
b)



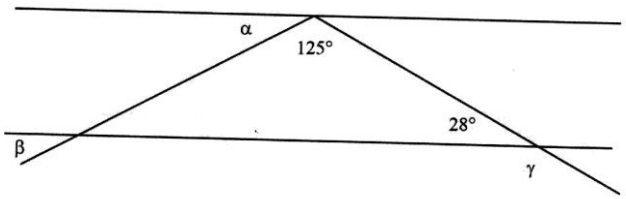
c)



d)

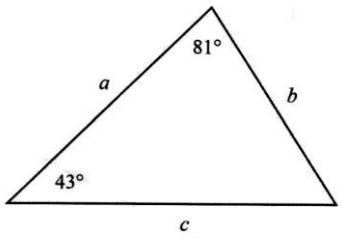


12. Koliko stupnjeva imaju kutovi na slici:

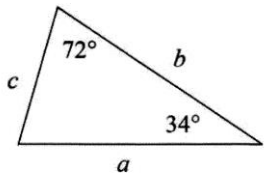


13. Usporedi stranice trokuta po veličini počevši sa najmanjom

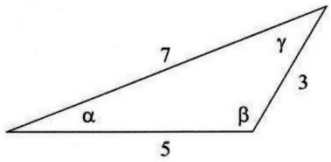
a)

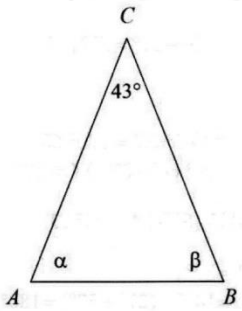


b)



14. Poredaj po veličini kutove trokuta





15. Izračunaj površinu trokuta ako su zadane duljine jedne stranice i njoj pripadne visine:
    a) a = 6.8 cm i v_a = 9.4 cm
    b) b = 4.5 cm i v_b = 8.5 cm
16. Izračunaj površinu pravokutnog trokuta ako su duljine njegovih kateta:
    a) a = 5.7 cm b = 4.8cm
    b) b = 4.5 cm i a= 5.4 cm
17. Izračunaj duljinu pripadne visine odnosnostranice trokuta:
    a) P = 18.56 cm^2 , a = 5.8 cm; b) P = 0. 0903 dm^2 , b = 4.3 cm;
    c) P = 20 m^2 , v_c = 8 m; d) P = 10.065 m^2 , v_b = 610 cm

18. Popuni tablicu:

a	8 cm	0.14 m
b	4 cm	2dm
v_a		8 cm
	6 cm	