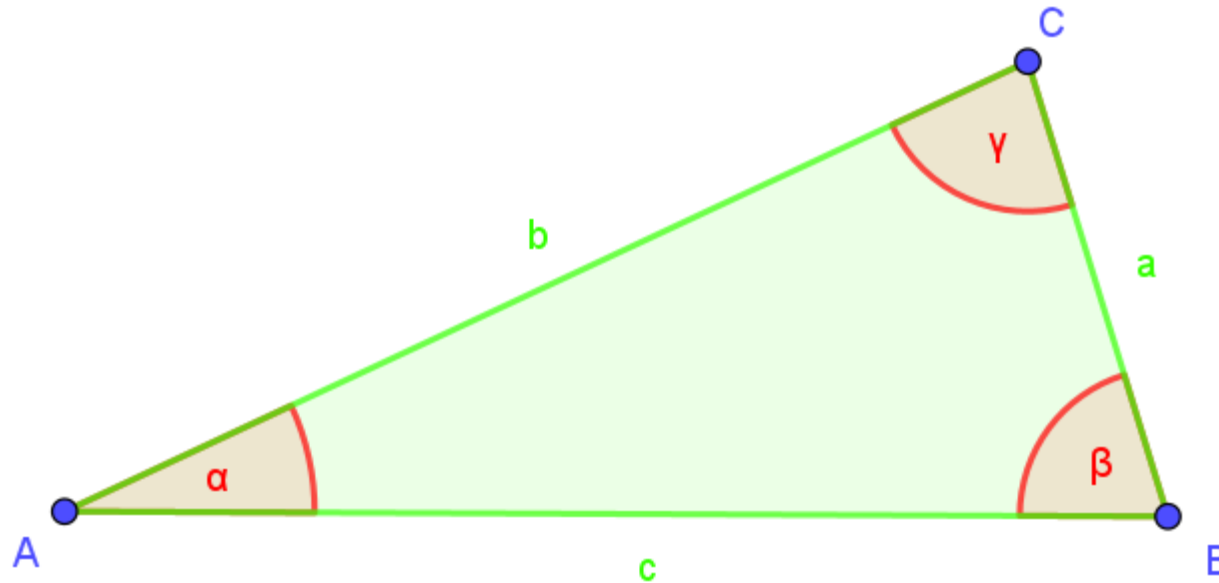


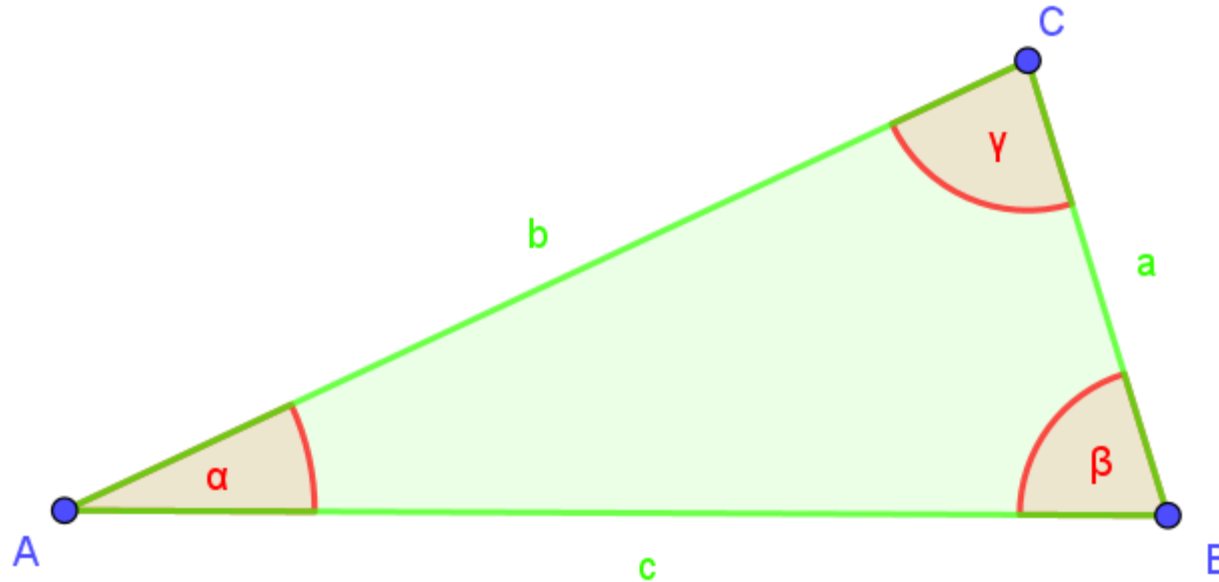
PONOVIMO!

Koji je ovo geometrijski lik?



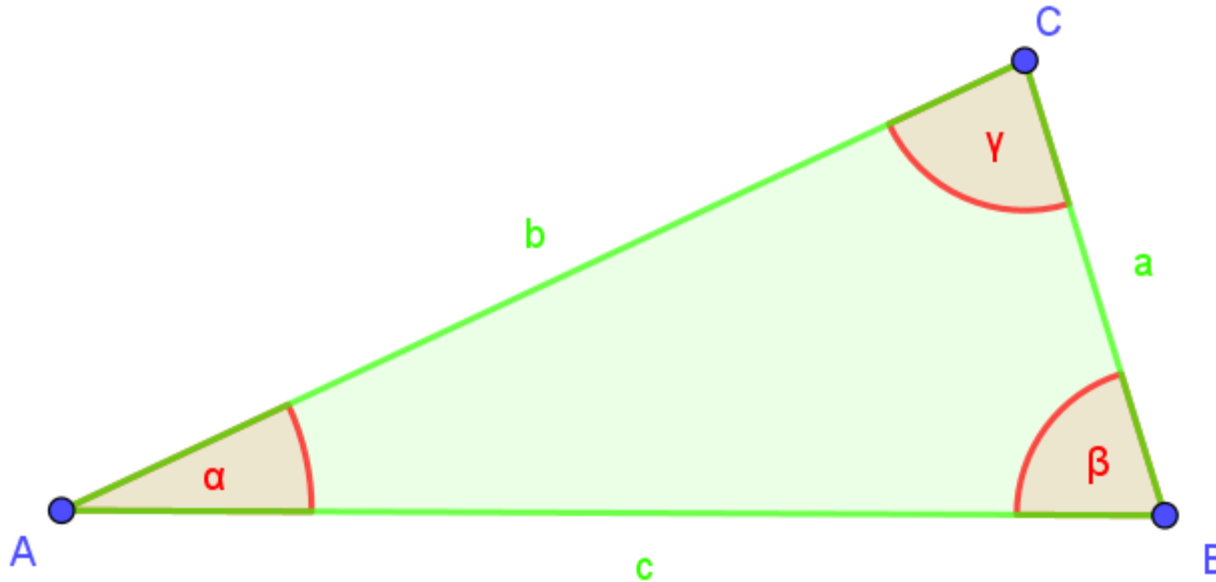
Trokut.

Što označavaju A , B i C u ovom trokutu?



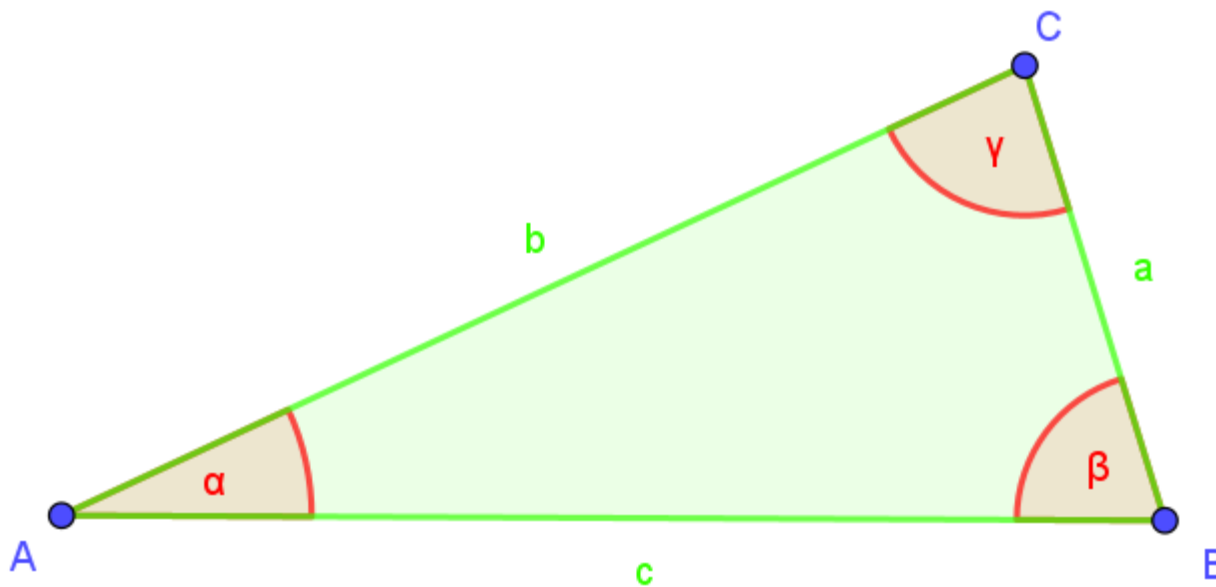
Vrhove trokuta.

Što označavaju a , b i c u ovom trokutu?



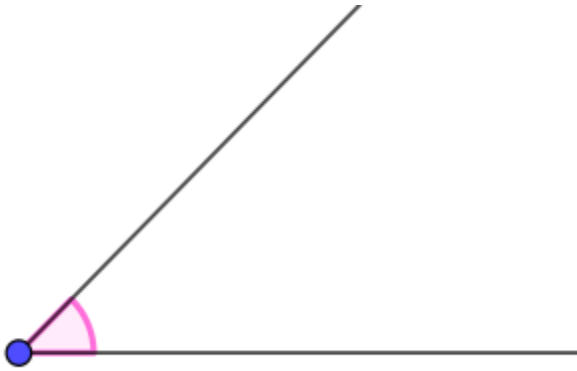
Duljine stranica trokuta.

Što označavaju grčka slova α , β i γ u ovom trokutu?

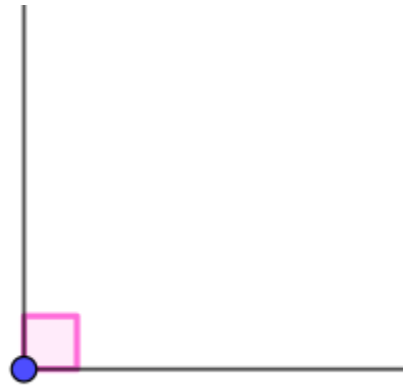


Mjere unutarnjih kutova trokuta.

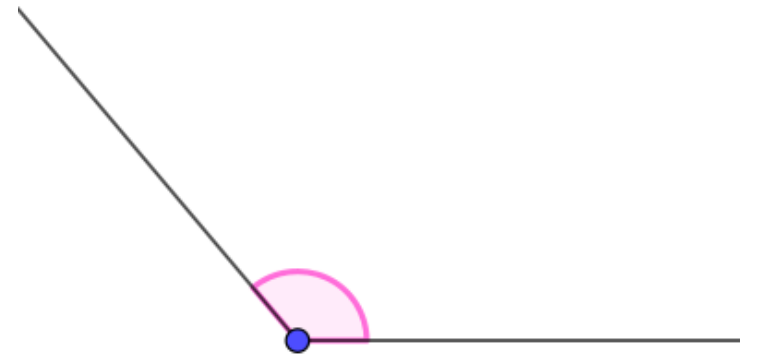
Koje vrste kutova poznajete?



Šiljasti kut



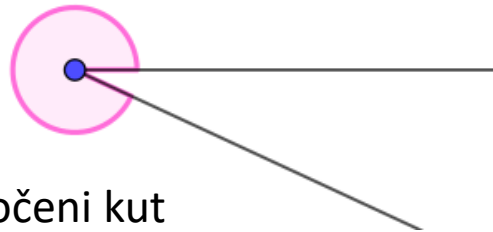
Pravi kut



Tupi kut



Ispruženi kut



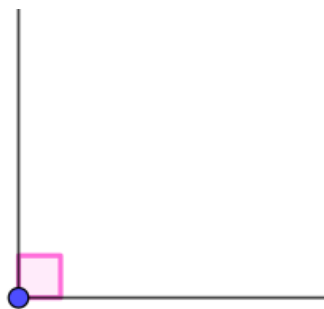
Izbočeni kut



Puni kut

Kolika je mjera...?

a) pravog kuta



$$\alpha = 90^\circ$$

b) ispruženog kuta

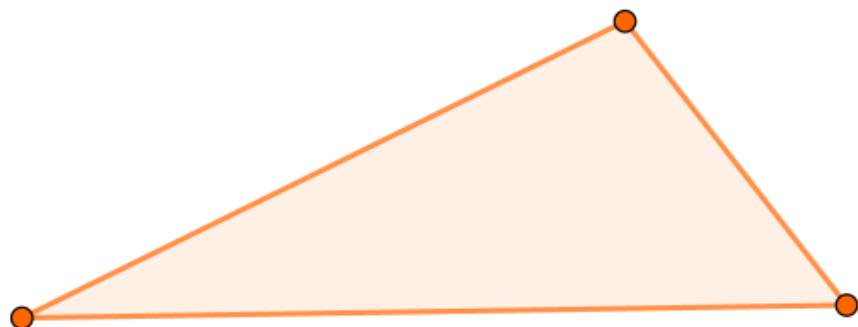


$$\alpha = 180^\circ$$

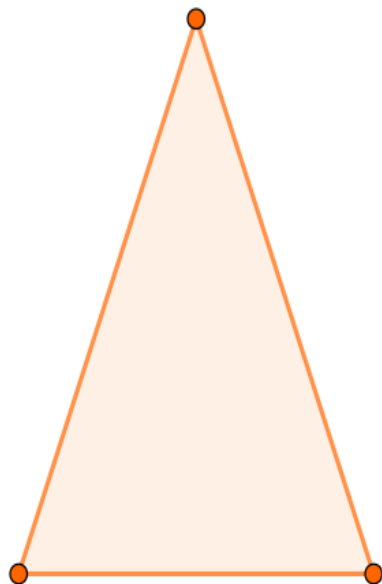
S obzirom na što dijelimo trokute?

- Duljine stranica
- Mjere unutarnjih kutova

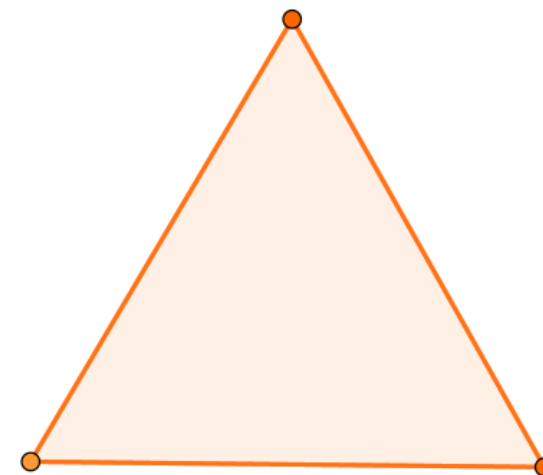
Trokuti s obzirom na duljine stranica



Raznostranični trokut

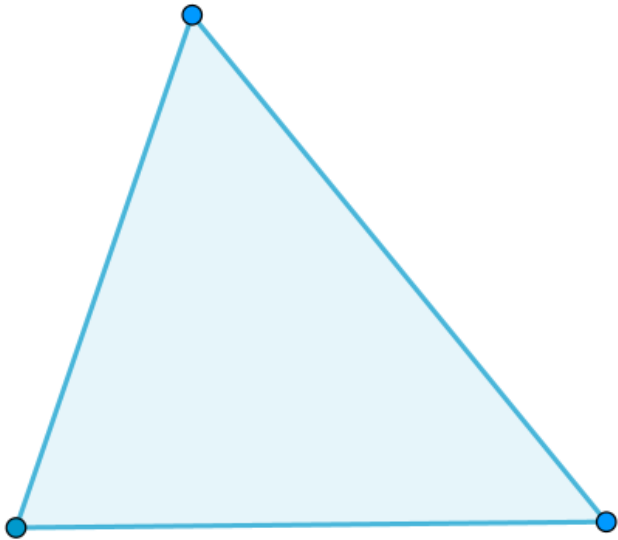


Jednakokrani trokut

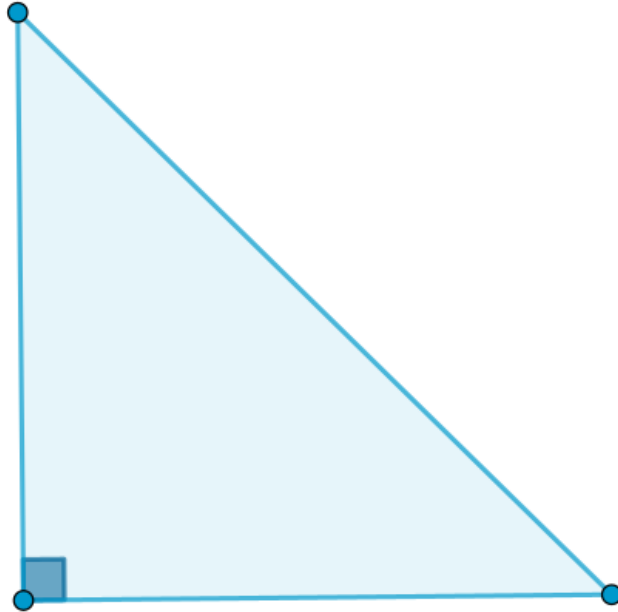


Jednakostranični trokut

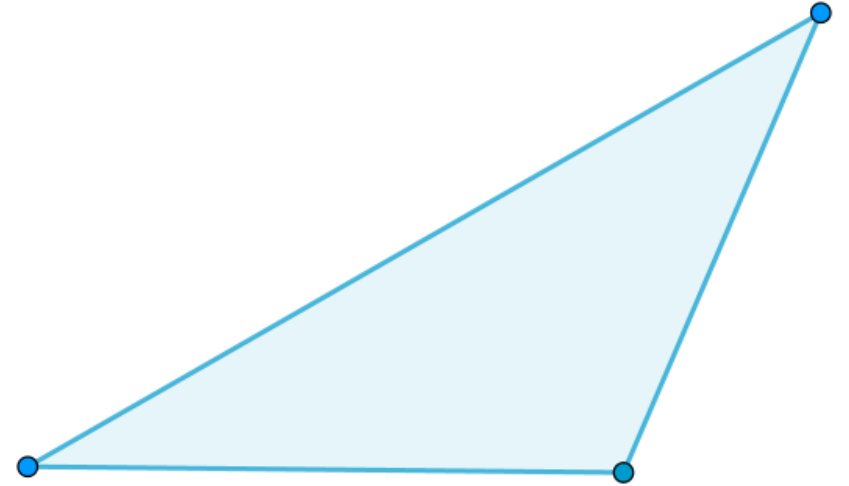
Trokuti s obzirom na mjere unutarnjih kutova



Šiljastokutni trokut



Pravokutni trokut



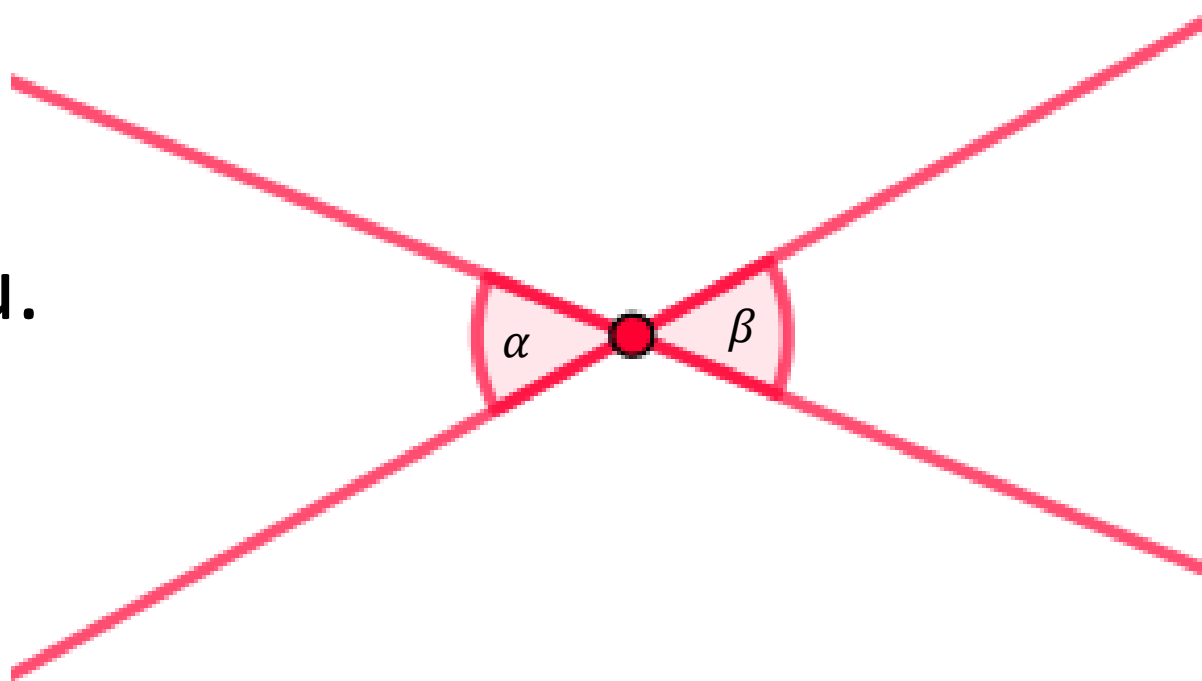
Tupokutni trokut

Prisjetimo se još i....

Koliku mjeru imaju vršni kutovi?

Imaju jednaku mjeru.

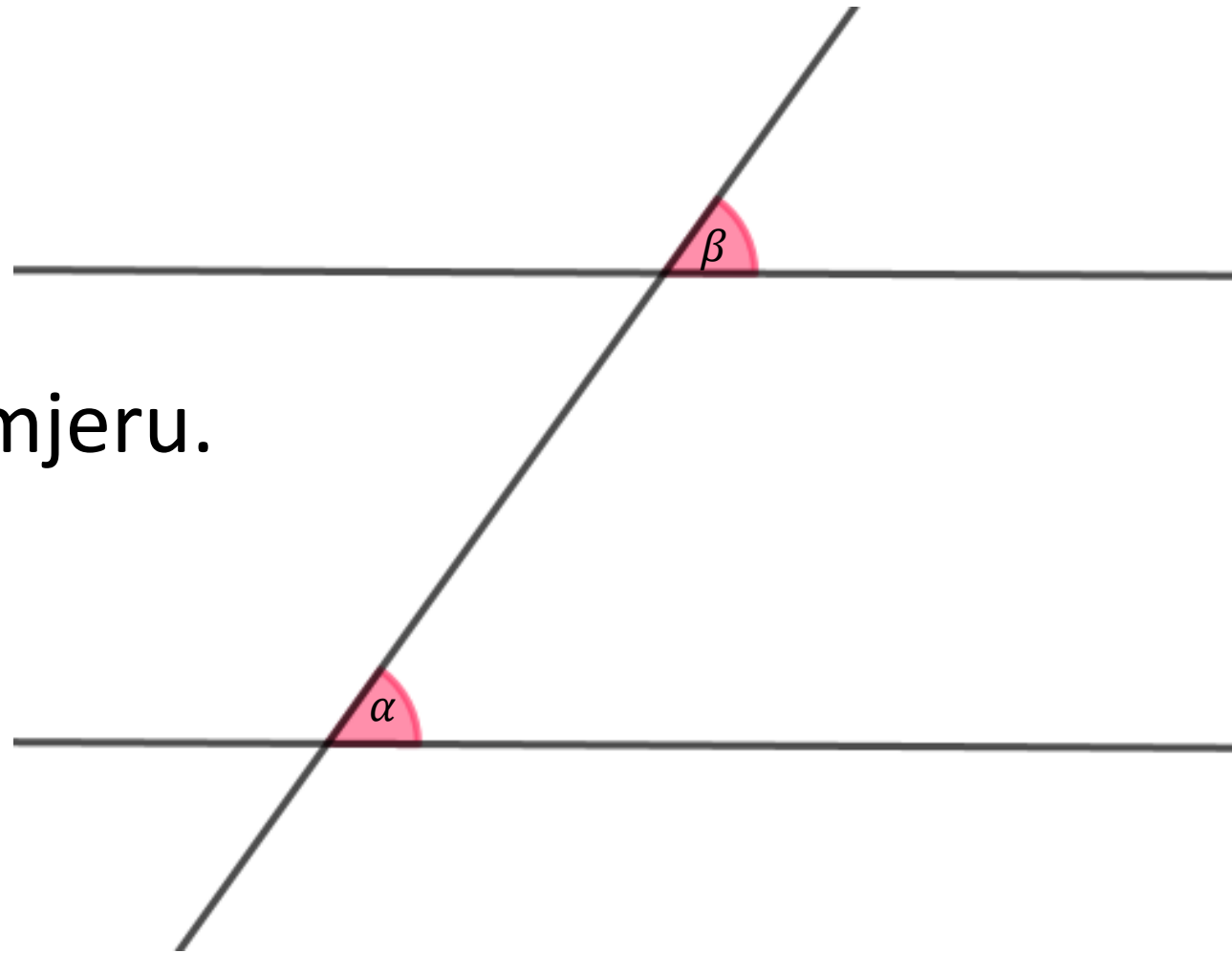
$$\alpha = \beta$$



Koliku mjeru imaju kutovi uz presječnicu
usporednih pravaca?

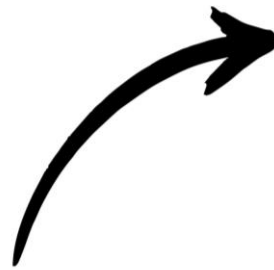
Imaju jednaku mjeru.

$$\alpha = \beta$$



Primjer 1.

Staklar Mirko



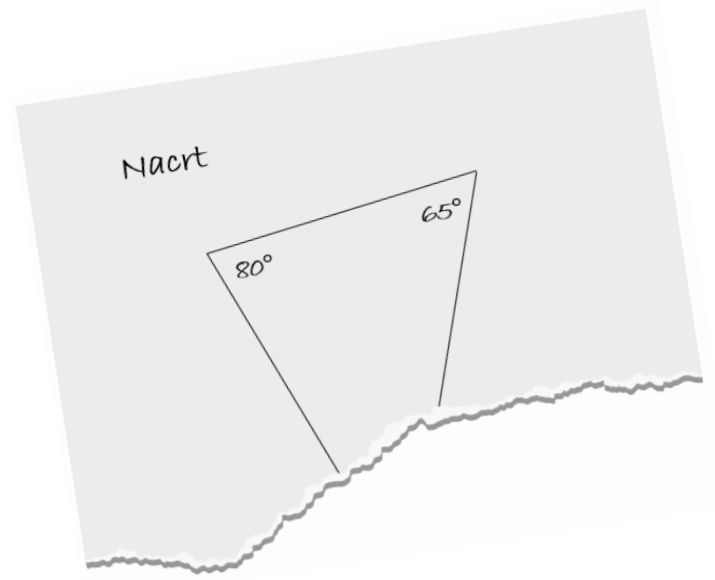
...ima problem

Staklar Mirko dobio je narudžbu napraviti stakleno pokrivalo za stol oblika trokuta.

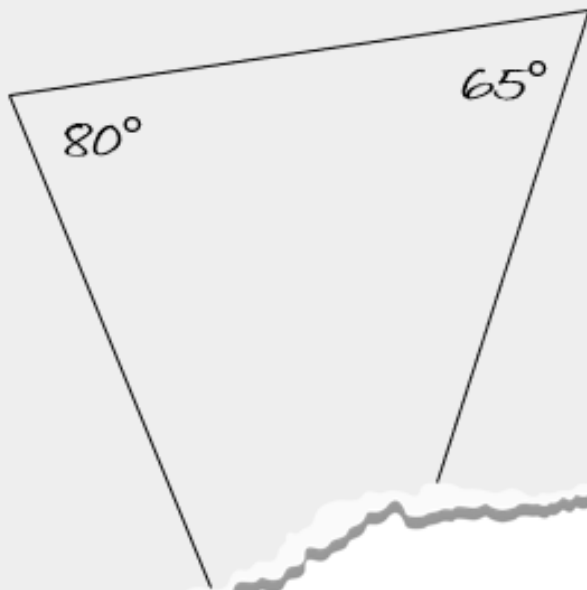
Nacrt koji je sastavio sadržavao je skicu trokuta s točno naznačenim mjerama kutova.

Nažalost, zbog neopreznosti jedan dio papira na kojem se nalazio taj nacrt, otrgnuo se i mjera jednog kuta izgubila se.

Pomozi staklaru Mirku odrediti mjeru izgubljenog kuta kako ne bi kasnio s izradom.



Nacrt



- Što je poznato?

$$\alpha = 80^\circ$$

$$\beta = 65^\circ$$

- Što je nepoznato?

$$\gamma = ?$$

Zbroj mjera unutarnjih
kutova u trokutu

Zbroj mjera unutarnjih kutova u trokutu

ISTRAŽIMO!



Zbroj mjera unutarnjih kutova u trokutu

Izmjerimo i izračunajmo!

<https://www.geogebra.org/m/wyun7rws>



Zbroj mjera unutarnjih kutova u trokutu

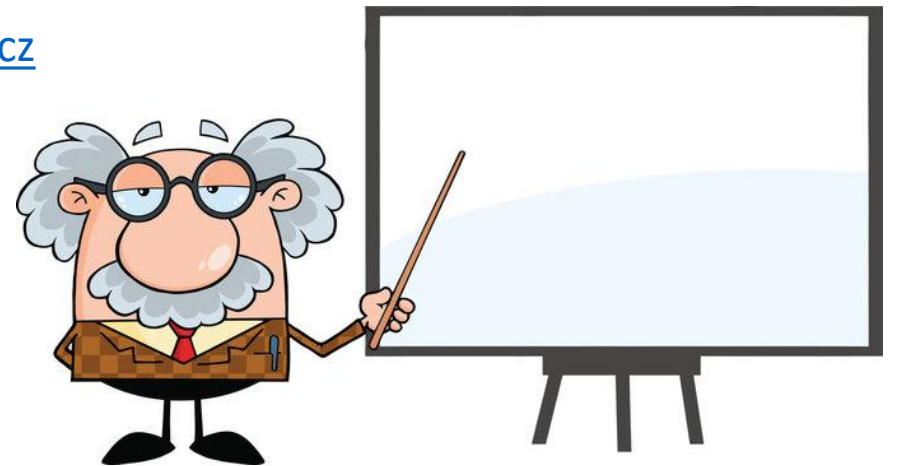
Je li to **uvijek** tako?



Zbroj mjera unutarnjih kutova u trokutu

DOKAŽIMO!

<https://www.geogebra.org/m/bjqtjdcz>



UPAMTI!

Zbroj mjera unutarnjih kutova u trokutu iznosi 180° .

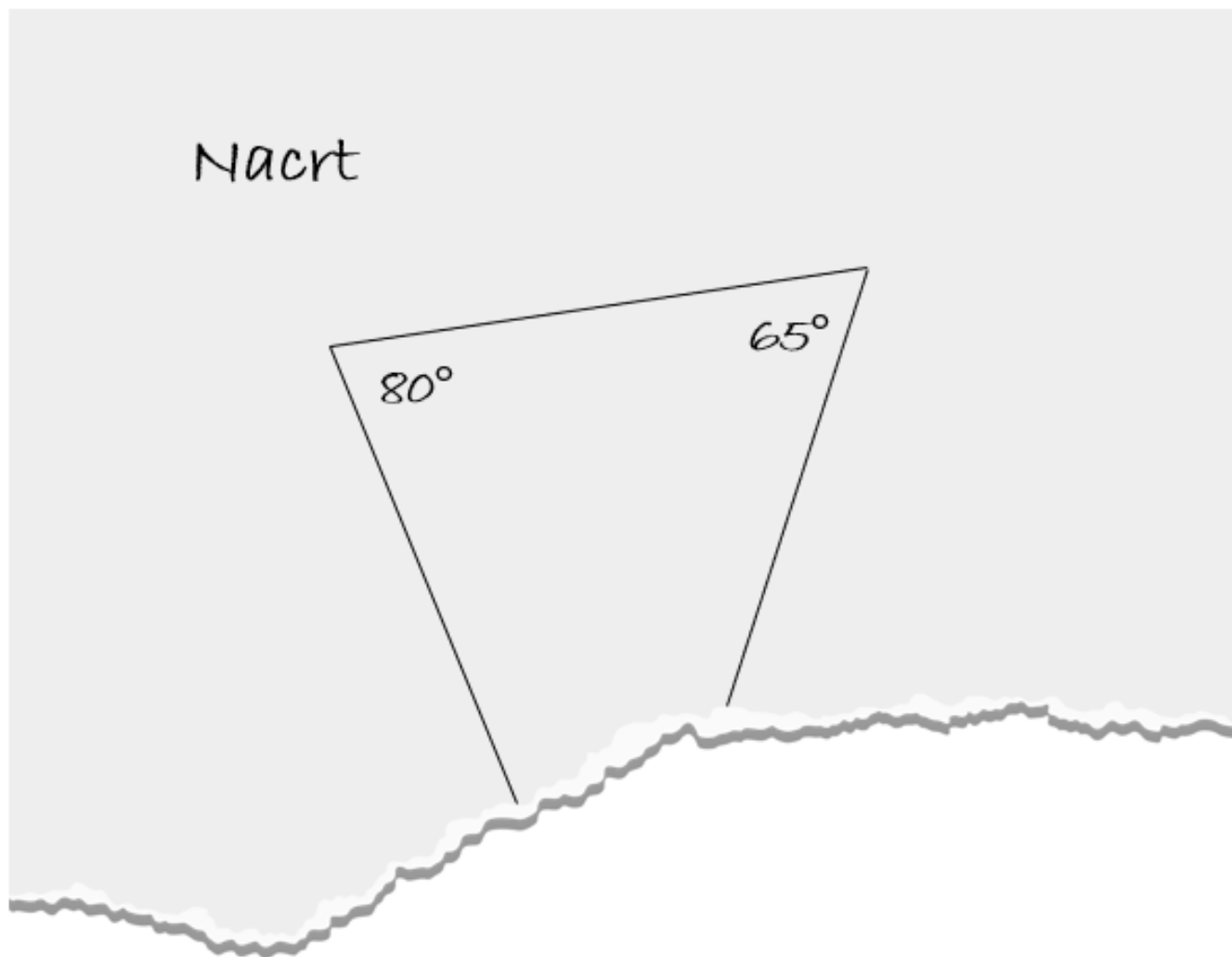
$$\alpha + \beta + \gamma = 180^\circ$$

Vratimo se na naš primjer...

Staklar Mirko



...i dalje ima problem!



Primjer 1.

$$\alpha = 80^\circ$$

$$\beta = 65^\circ$$

$$\frac{\quad}{\gamma = ?}$$

$$\alpha + \beta + \gamma = 180^\circ$$

$$\gamma = 180^\circ - (\alpha + \beta)$$

$$\gamma = 180^\circ - (80^\circ + 65^\circ)$$

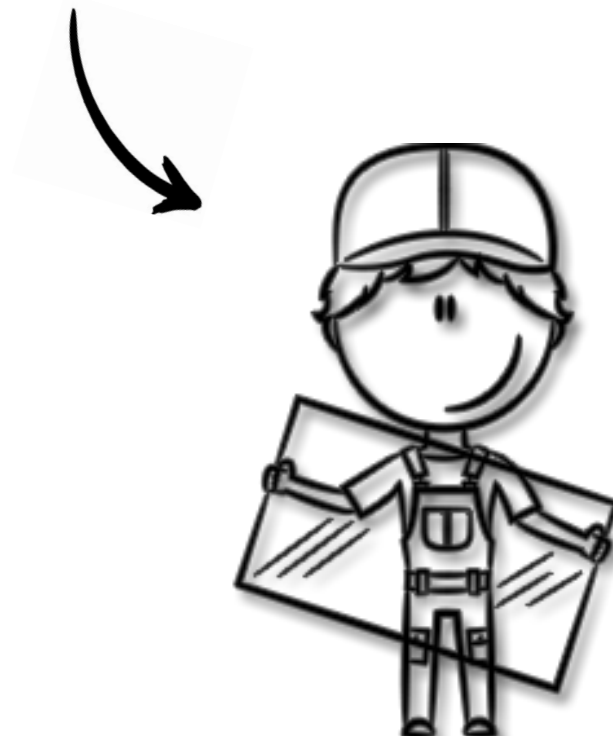
$$\gamma = 180^\circ - 145^\circ$$

$$\gamma = 35^\circ$$

Nacrt



Staklar Mirko



...više nema problem!

VJEŽBA

Zbroj mjera unutarnjih kutova u trokutu

VJEŽBA

Udžbenik

- str. 175.

Ponovimo!

Što smo danas radili?

Koliko iznosi zbroj mjera unutarnjih kutova u trokutu?

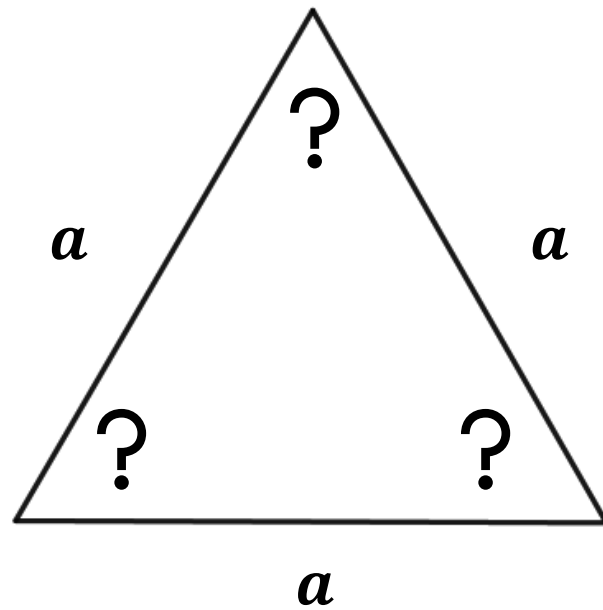
Zbroj mjera unutarnjih kutova u trokutu iznosi 180° .

$$\alpha + \beta + \gamma = 180^\circ$$

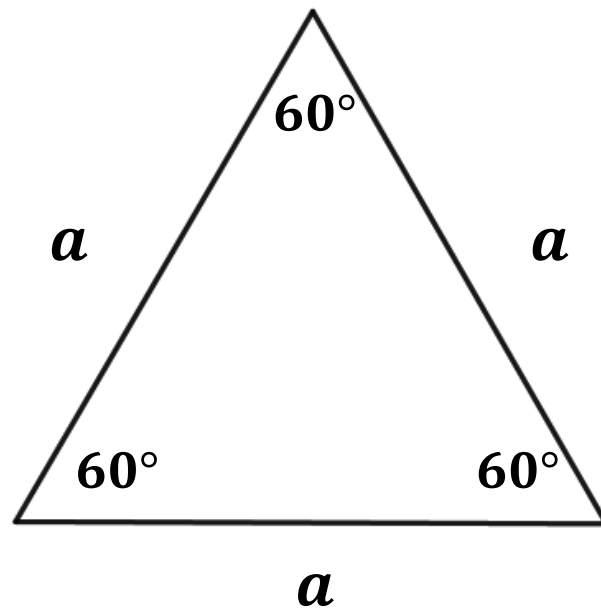
IZAZOV!



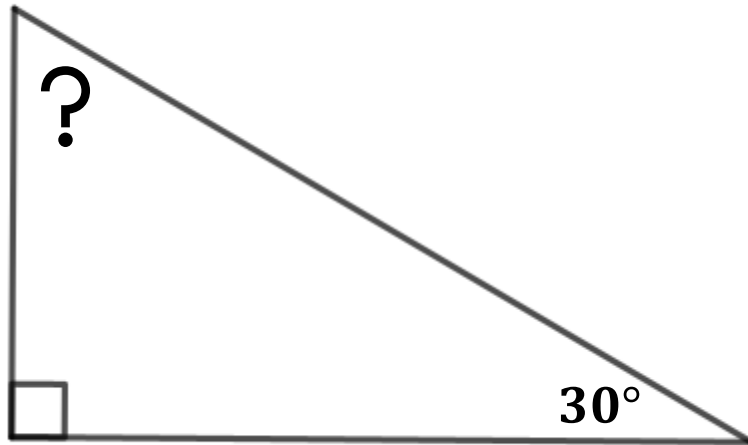
Brzo izračunaj „?”



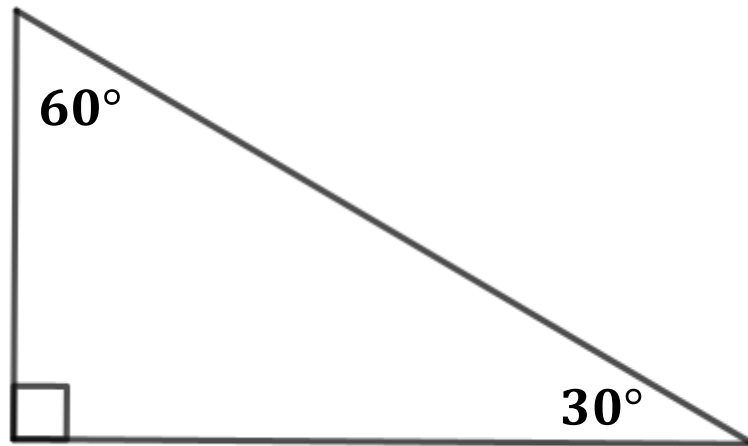
Brzo izračunaj „?”



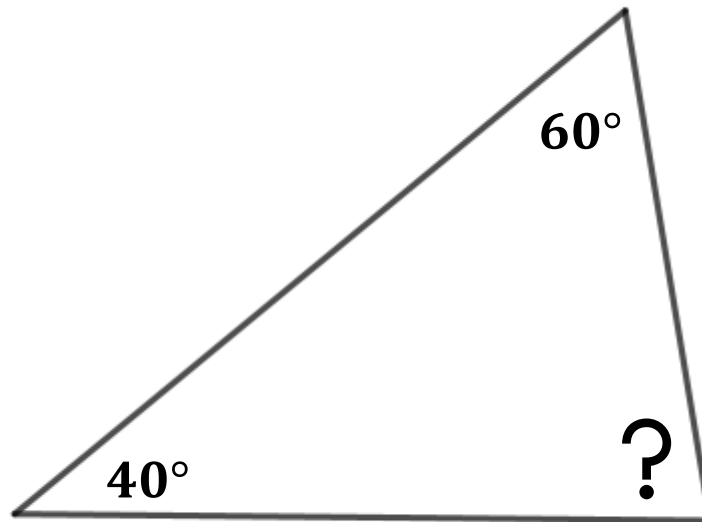
Brzo izračunaj „?”



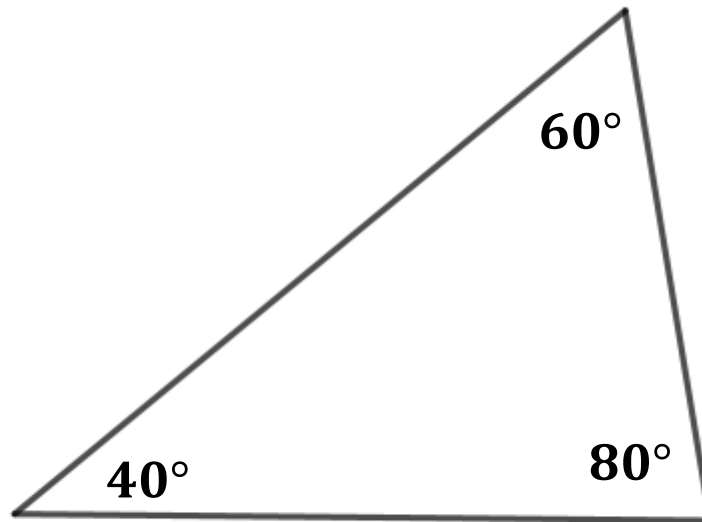
Brzo izračunaj „?”



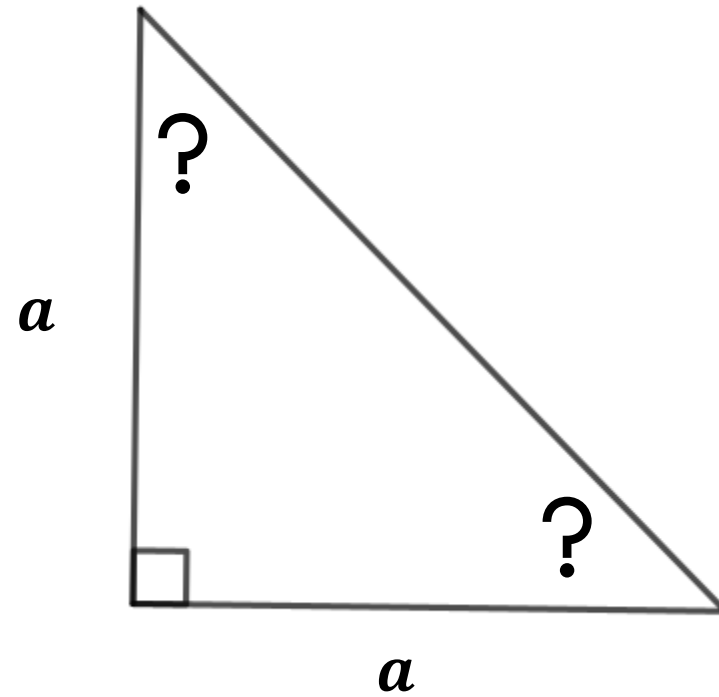
Brzo izračunaj „?”



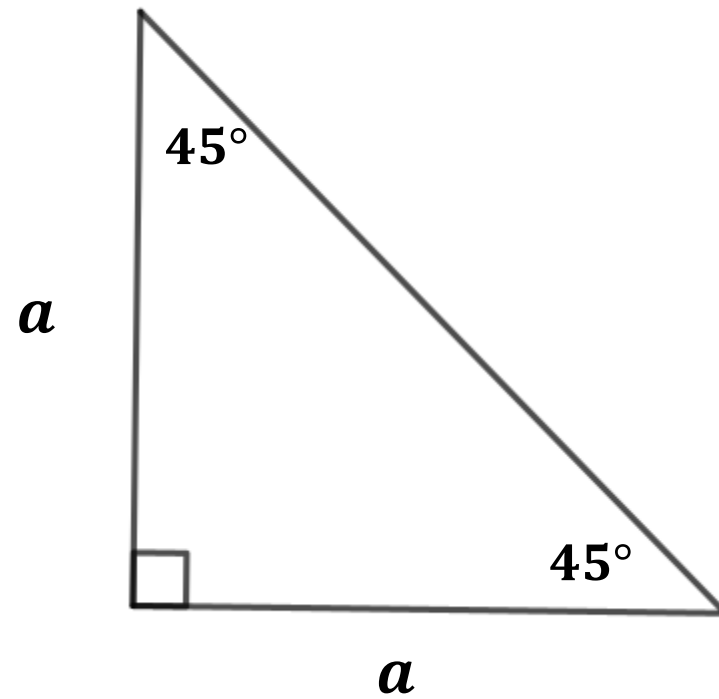
Brzo izračunaj „?”



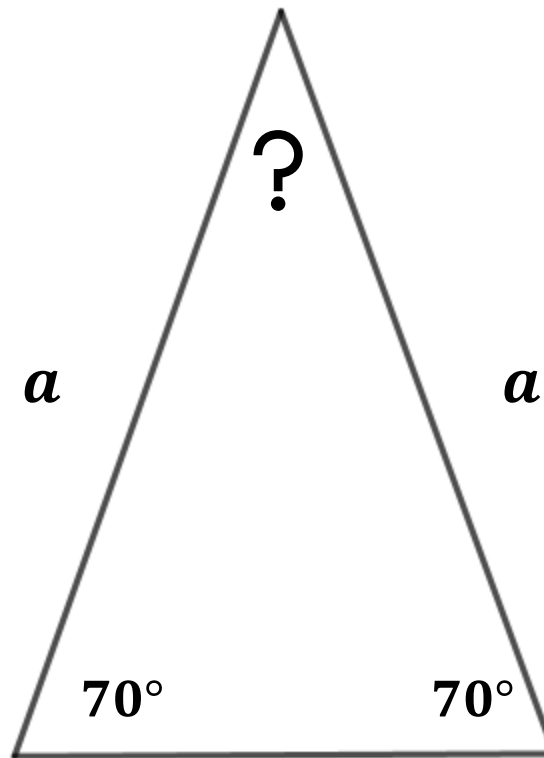
Brzo izračunaj „?”



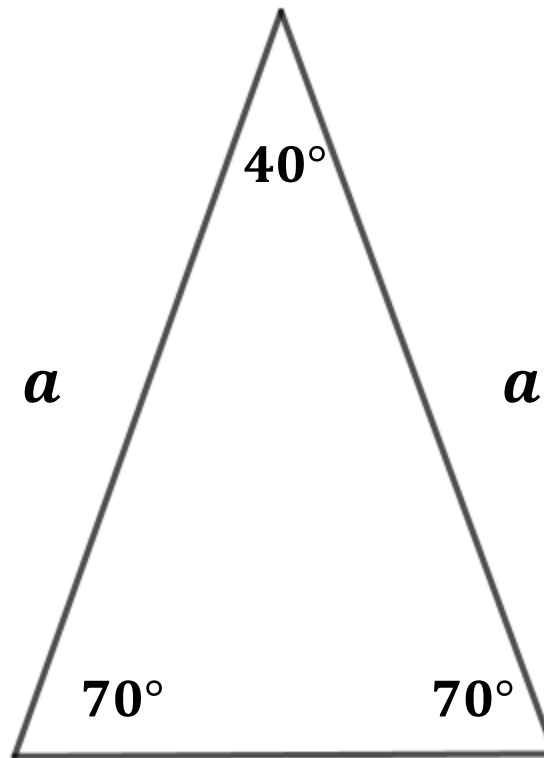
Brzo izračunaj „?”



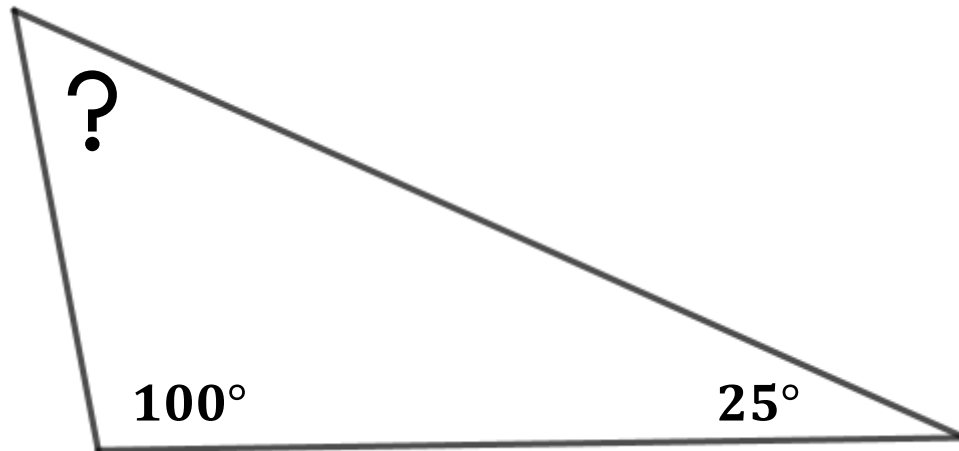
Brzo izračunaj „?”



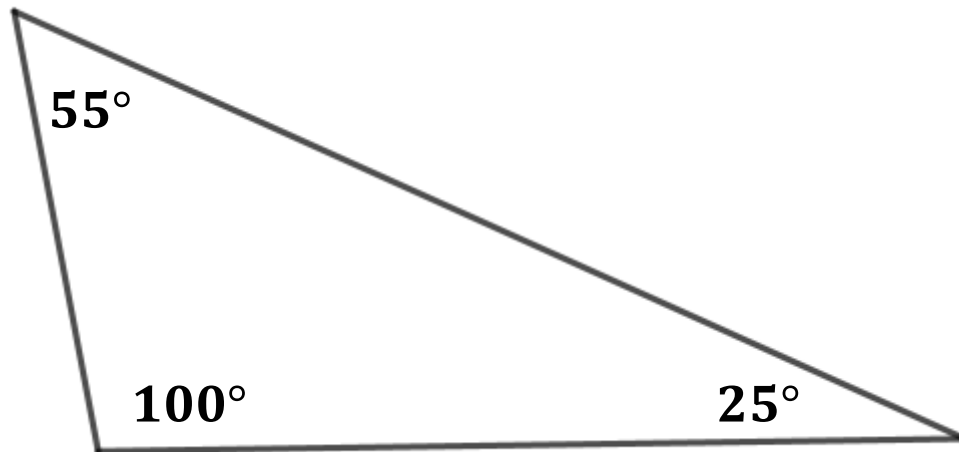
Brzo izračunaj „?”



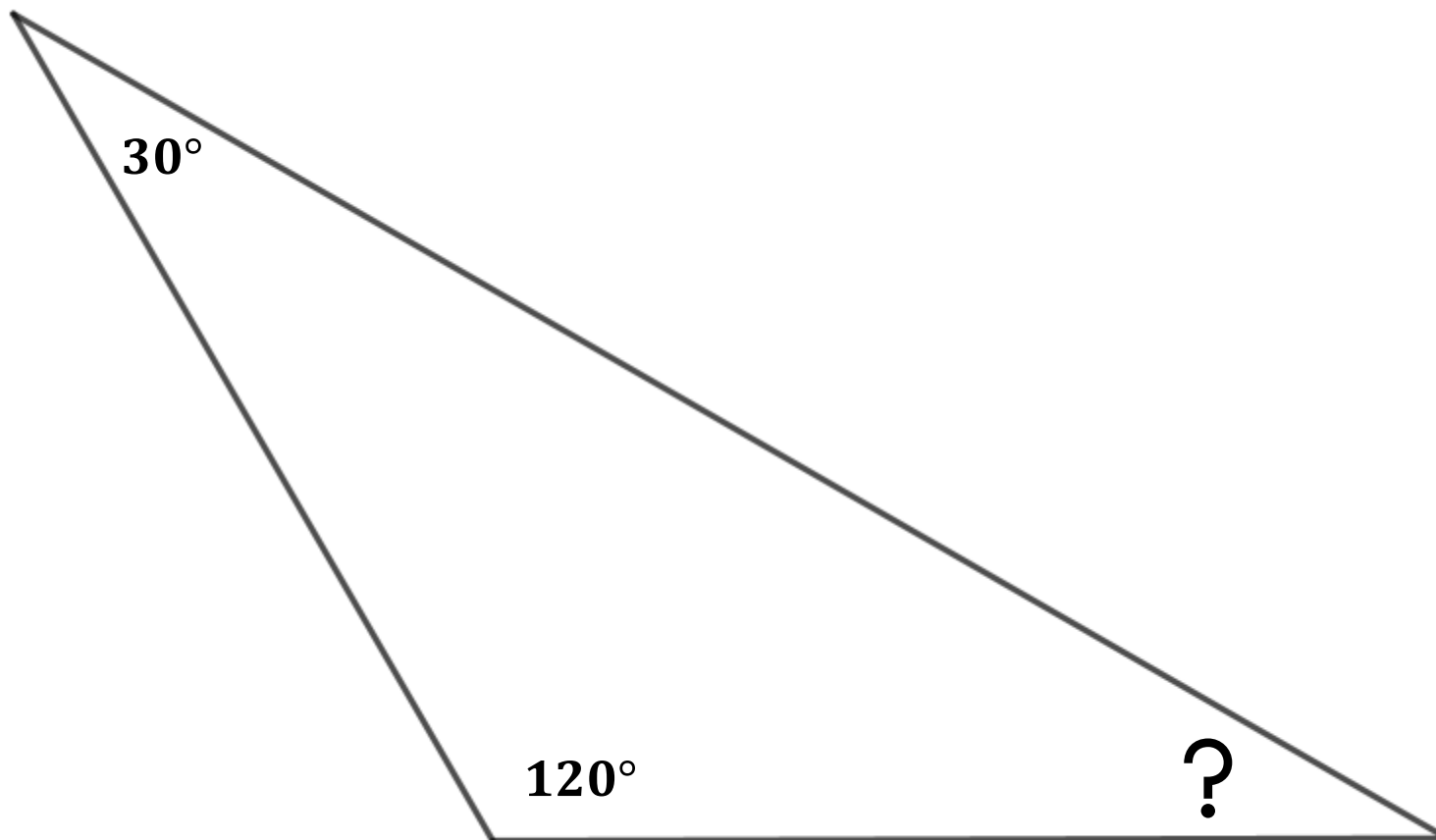
Brzo izračunaj „?”



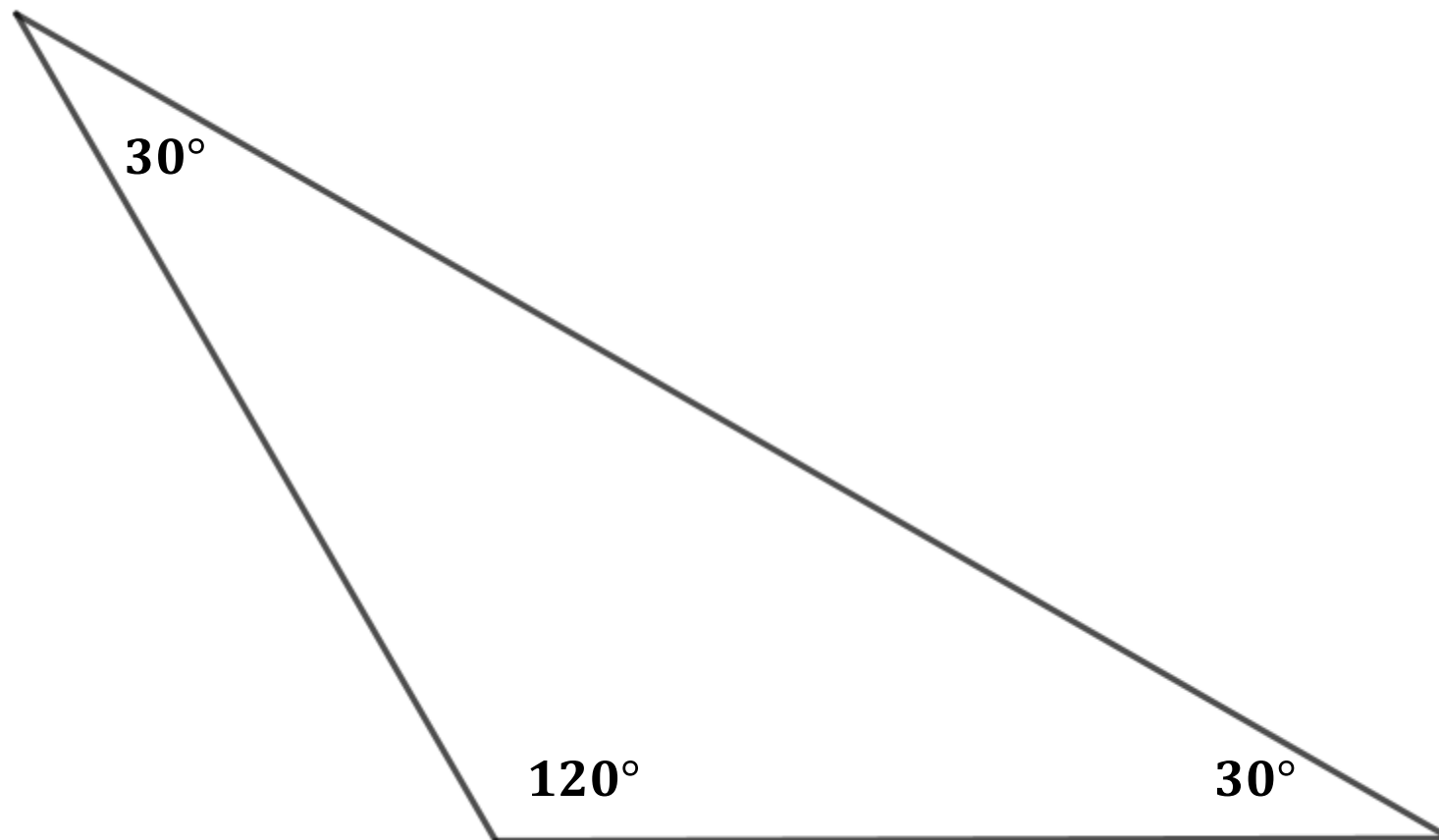
Brzo izračunaj „?”



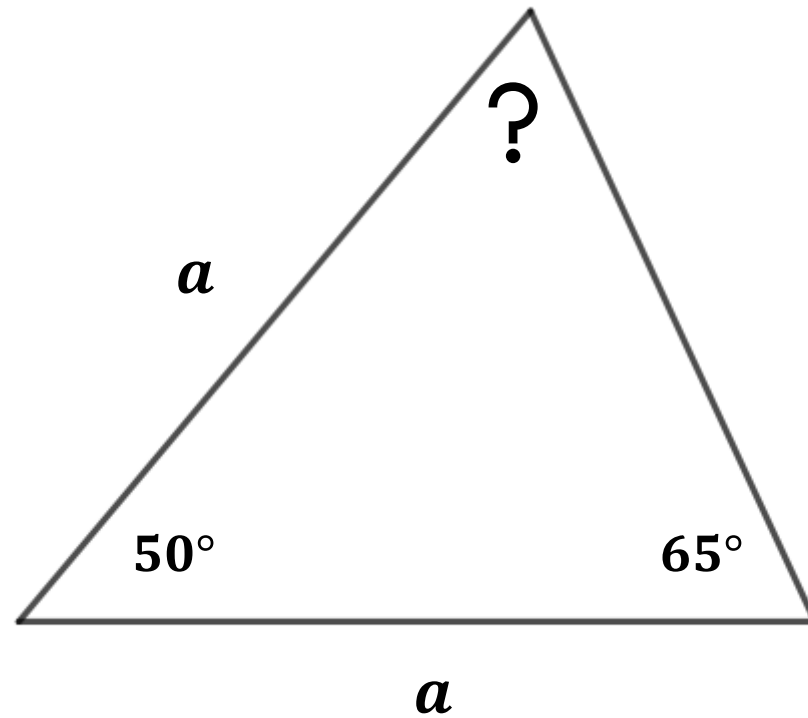
Brzo izračunaj „?”



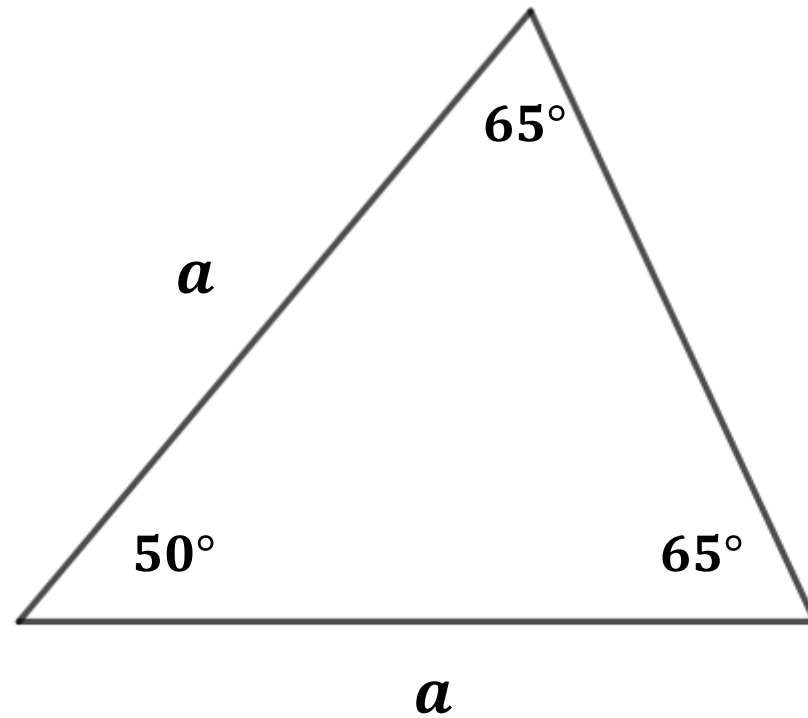
Brzo izračunaj „?”



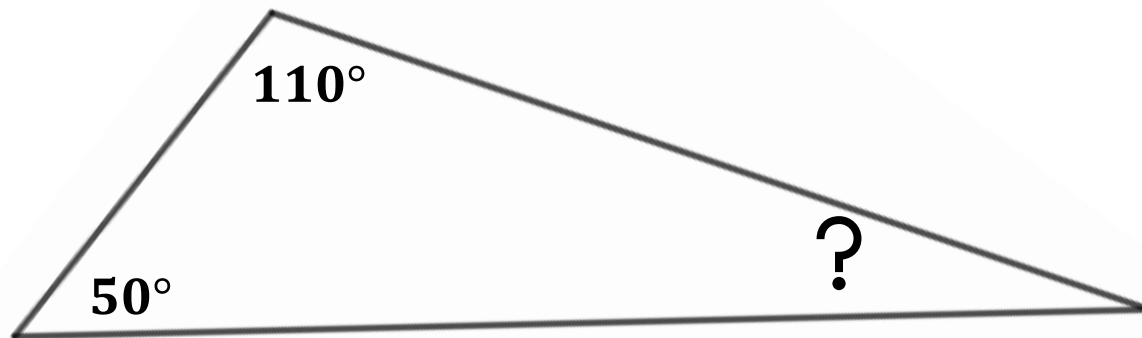
Brzo izračunaj „?”



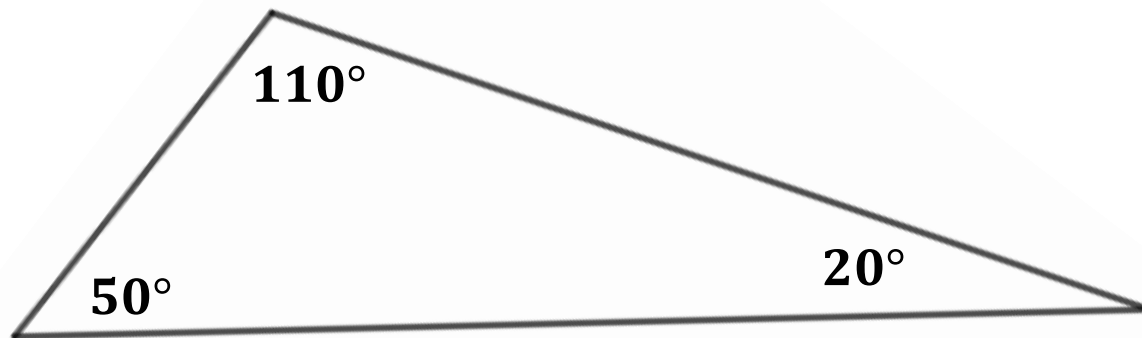
Brzo izračunaj „?”



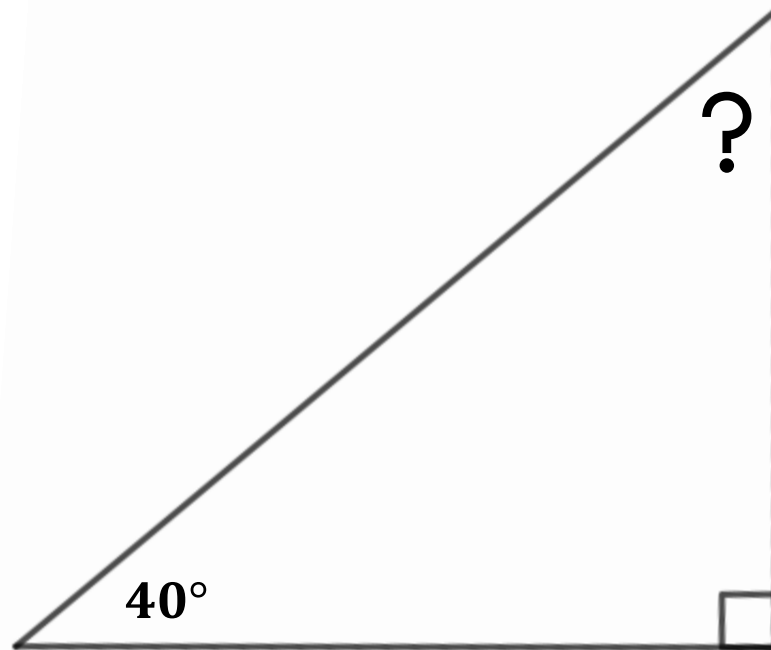
Brzo izračunaj „?”



Brzo izračunaj „?”



Brzo izračunaj „?”



Brzo izračunaj „?”

