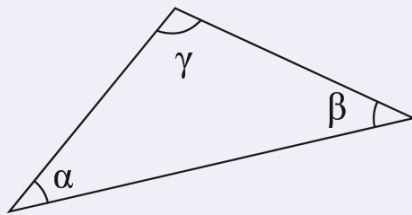


Monikulmio, jossa on kolme kulmaa, on kolmio. Kolmion kulmien summa on  $180^\circ$ .



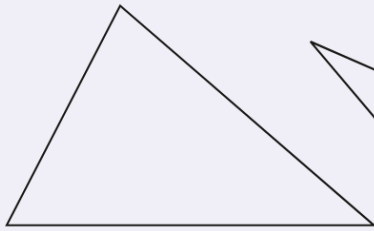
$$\alpha + \beta + \gamma = 180^\circ$$

Todistaminen

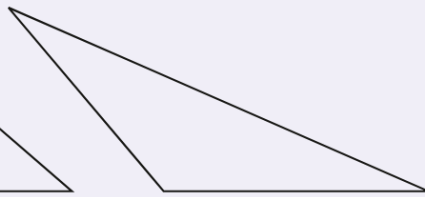
Jos matematiikassa on osoitettava, että jokin ominaisuus pitää aina paikkansa, se on tehtävä käyttämättä yksittäisiä numeroarvoja.

Osoitamme nyt, että kolmion kulmien summa on aina  $180^\circ$ .

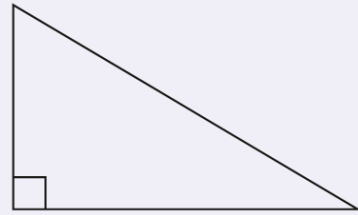
Kolmiot luokitellaan kulmien perusteella.



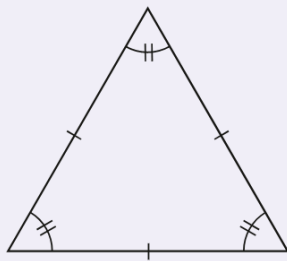
teräväkulmainen  
kolmio



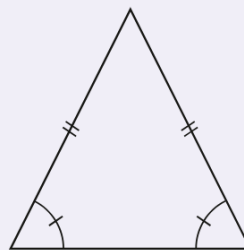
tylppäkulmainen  
kolmio



suorakulmainen  
kolmio

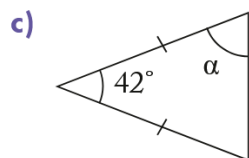
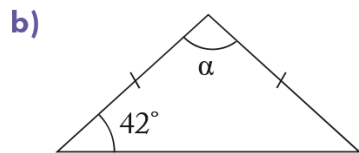
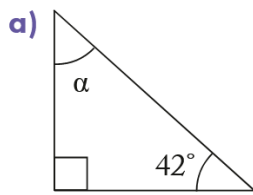


tasasivuinen  
kolmio

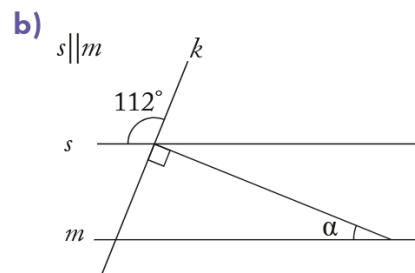
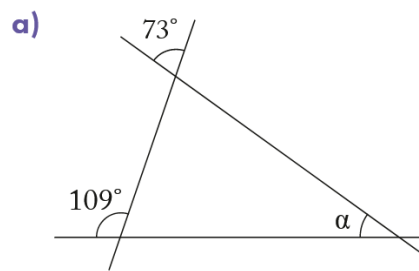


tasakylkinen  
kolmio

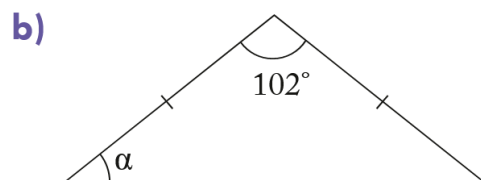
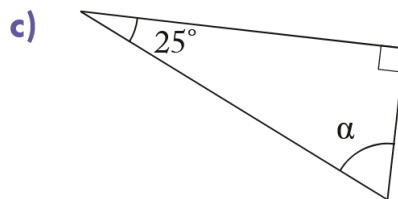
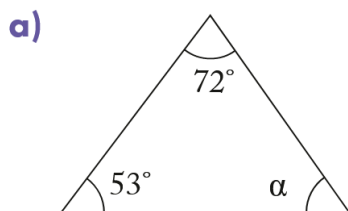
632 Laske kulman  $\alpha$  suuruus.



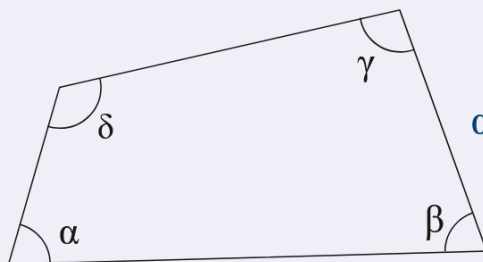
635 Laske kulman  $\alpha$  suuruus.



637 Laske kulman  $\alpha$  suuruus.



Monikulmio, jossa on neljä kulmaa, on nelikulmio. Nelikulmion kulmien summa on  $360^\circ$ .

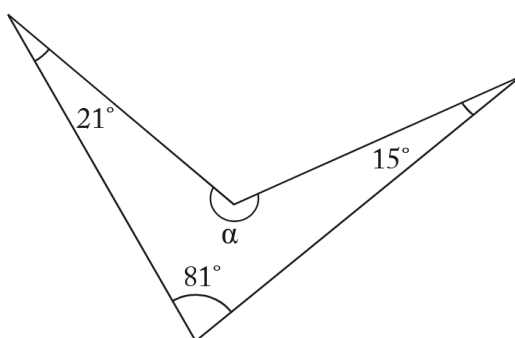
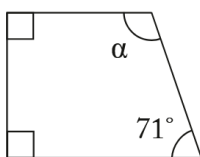


$$\alpha + \beta + \gamma + \delta = 360^\circ$$

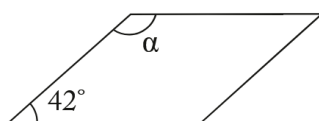
644

Laske kulman  $\alpha$  suuruus. b)

a)



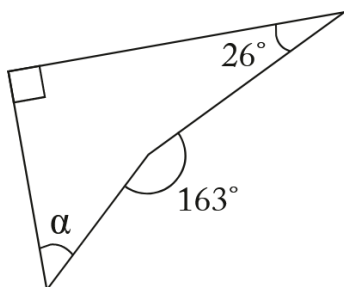
c)



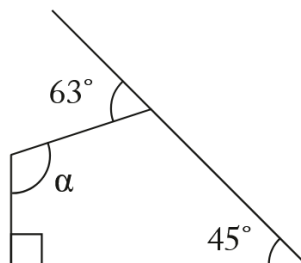
650

Laske kulman  $\alpha$  suuruus. b)

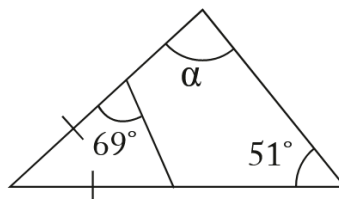
a)



b)

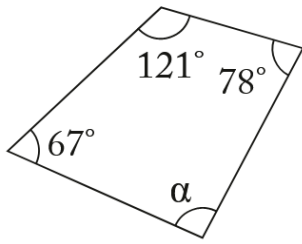


c)

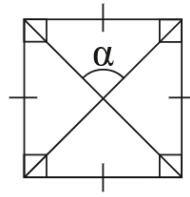


652 Laske kulman  $\alpha$  suuruus.

a)



c)



b)

