

Úhly

6. ročník

jméno:

třída:

Řešení : sedovamatika.cz



„Některé z příkladů použité v tomto pdf jsou převzaty z materiálů Cermatu (www.cermat.cz), které slouží jako příklady pro přijímací zkoušky a testy.“

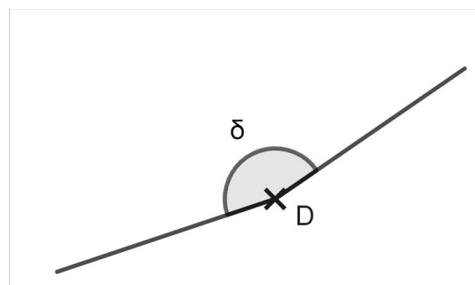
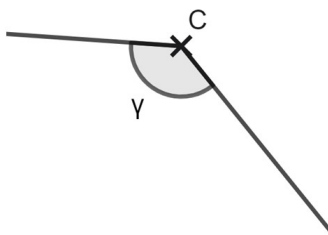
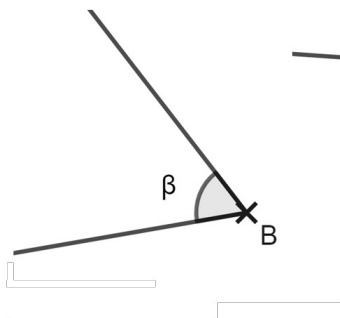
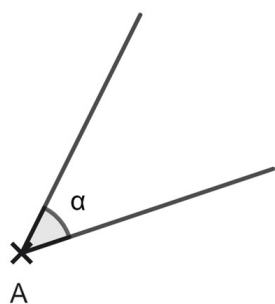
aktualizováno: 12. 8. 2025

Konstrukce úhlu 1

<https://youtu.be/19JUB-kNGto>



Změř úhel



Sestroj úhel.

1) $\beta = 24^\circ$

2) $\delta = 72^\circ$

3) $\alpha = 87^\circ$

4) $\gamma = 110^\circ$

5) $\varepsilon = 145^\circ$

6) $\alpha = 163^\circ$

7) $\omega = 96^\circ$

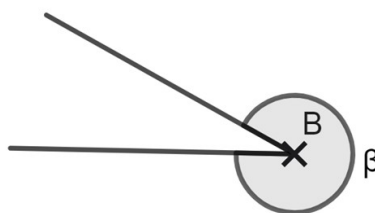
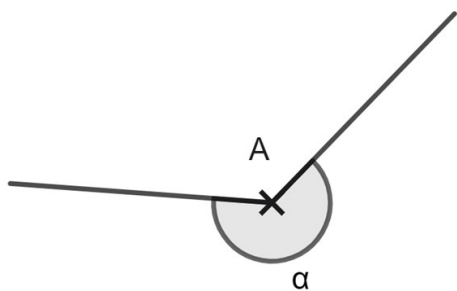
8) $\gamma = 55^\circ$

9) $\delta = 12^\circ$

Konstrukce úhlu 2

Změř úhel

https://youtu.be/-QTVIS7SJ_g



Sestroj úhel.

1) $\beta = 247^\circ$

2) $\omega = 280^\circ$

3) $\varphi = 200^\circ$

4) $\rho = 320^\circ$

5) $\varepsilon = 190^\circ$

6) $\varphi = 341^\circ$

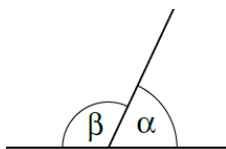
Stupně a minuty 1

Úhly alfa a beta jsou vedlejší. Dopočítej chybějící úhel.

<https://youtu.be/N3vGY8PQW9U>



1)
 $\alpha = 26^\circ$
 $\beta =$



2)
 $\alpha =$
 $\beta = 114^\circ$

3)
 $\alpha = 47^\circ$
 $\beta =$

4)
 $\alpha =$
 $\beta = 149^\circ$

5)
 $3^\circ 52' - 1^\circ 32' =$

6)
 $1^\circ - 27' =$

7)
 $24^\circ 17' - 18^\circ 35' =$

8)
 $\alpha = 80^\circ 08'$
 $\beta =$

9)
 $\alpha =$
 $\beta = 155^\circ 25'$

10)
 $\alpha = 67^\circ 17'$
 $\beta =$

11)
 $\alpha =$
 $\beta = 97^\circ 49'$

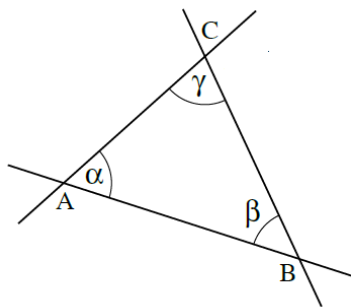
12)
 $\alpha =$
 $\beta = 36^\circ 37'$

13)
 $\alpha =$
 $\beta = 125^\circ 13'$

Stupně a minuty 2

Dopočítej úhly podle obrázku.

<https://youtu.be/d360SE4HPX0>



1)
 $\alpha = 34^\circ$
 $\beta = 90^\circ$
 $\gamma =$

2)
 $\alpha = 22^\circ$
 $\beta =$
 $\gamma = 110^\circ$

3)
 $\alpha = 20^\circ$
 $\beta = 60^\circ$
 $\gamma =$

4)
 $\alpha = 49^\circ$
 $\beta = 66^\circ$
 $\gamma =$

5)
 $\alpha = 20^\circ 16'$
 $\beta = 35^\circ$
 $\gamma =$

6)
 $\alpha = 35^\circ 15'$
 $\beta = 120^\circ 15'$
 $\gamma =$

7)
 $\alpha =$
 $\beta = 37^\circ 23'$
 $\gamma = 91^\circ 47'$

8)
 $\alpha = 65^\circ 27'$
 $\beta = 33^\circ 38'$
 $\gamma =$

9)
 $\alpha =$
 $\beta = 29^\circ 59'$
 $\gamma = 107^\circ 08'$

10)
 $\alpha = 73^\circ 25'$
 $\beta = 63^\circ 45'$
 $\gamma =$

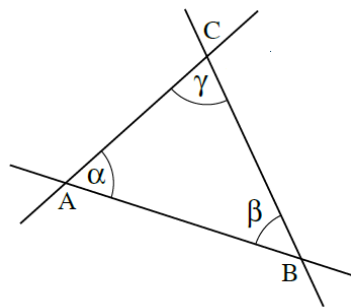
11)
 $\alpha = 37^\circ 59'$
 $\beta =$
 $\gamma = 123^\circ 18'$

12)
 $\alpha = 77^\circ 9'$
 $\beta = 42^\circ 11'$
 $\gamma =$

Stupně a minuty 3

Dopočítej úhly podle obrázku.

[bez videa]



1)
 $\alpha = 31^\circ 54'$
 $\beta = 90^\circ$
 $\gamma =$

2)
 $\alpha = 22^\circ 15'$
 $\beta =$
 $\gamma = 113^\circ 22'$

3)
 $\alpha = 20^\circ 15'$
 $\beta = 57^\circ 45'$
 $\gamma =$

4)
 $\alpha = 69^\circ 32'$
 $\beta = 26^\circ 59'$
 $\gamma =$

5)
 $\alpha = 29^\circ 26'$
 $\beta = 35^\circ 37'$
 $\gamma =$

6)
 $\alpha = 135^\circ 15'$
 $\beta = 20^\circ 42'$
 $\gamma =$

7)
 $\alpha =$
 $\beta = 57^\circ 23'$
 $\gamma = 61^\circ 47'$

8)
 $\alpha = 55^\circ 67'$
 $\beta = 32^\circ 18'$
 $\gamma =$

9)
 $\alpha =$
 $\beta = 79^\circ 9'$
 $\gamma = 77^\circ 8'$

10)
 $\alpha = 53^\circ 25'$
 $\beta = 93^\circ 36'$
 $\gamma =$

11)
 $\alpha = 15^\circ 24'$
 $\beta = 83^\circ 29'$
 $\gamma =$

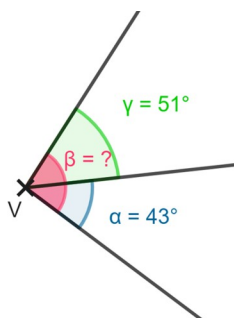
12)
 $\alpha = 78^\circ 44'$
 $\beta = 53^\circ 26'$
 $\gamma =$

Sčítání a odčítání úhlů
Dopočítej chybějící úhly.

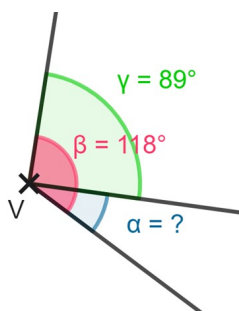
<https://youtu.be/7NrBXINB1bU>



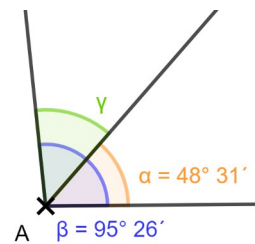
1)



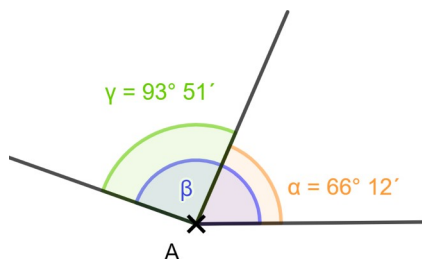
2)



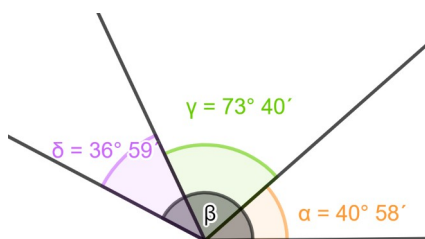
3)



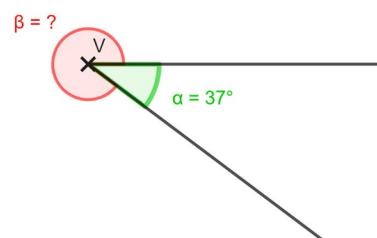
4)



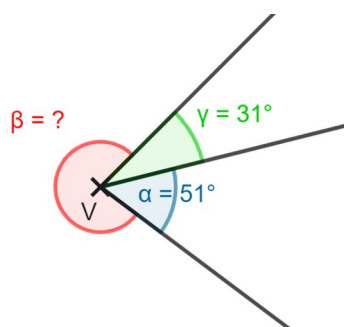
5)



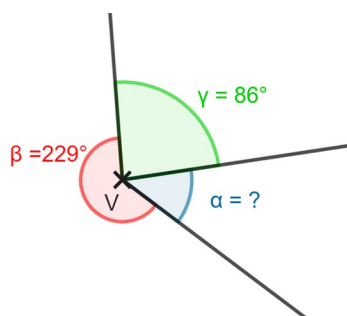
6)



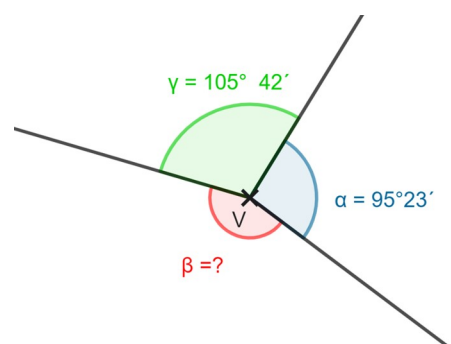
7)



8)



9)

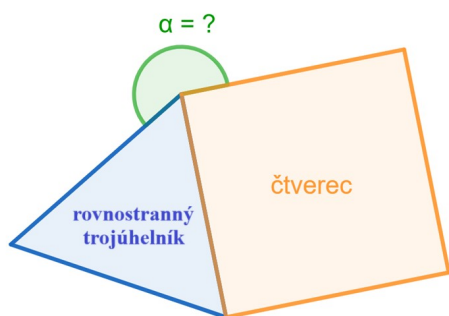


Mnohoúhelníky 1
Dopočítej chybějící úhly.

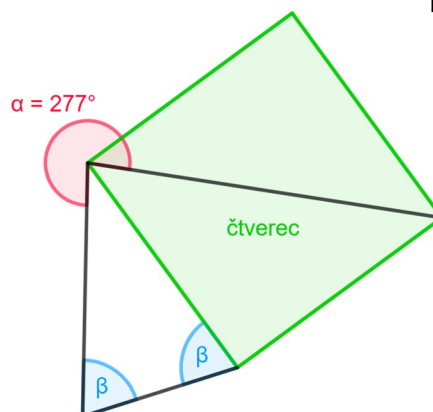
<https://youtu.be/JaskdxwicSo>



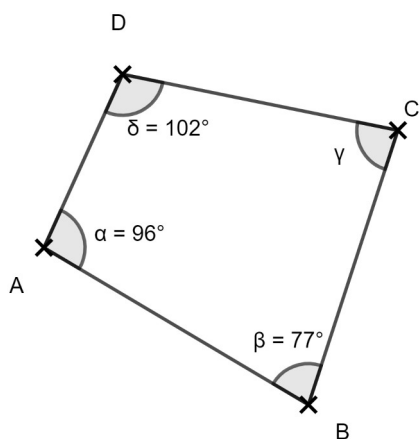
1)



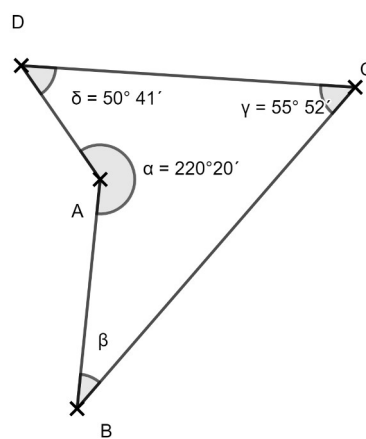
2)



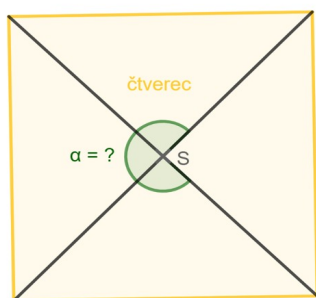
3)



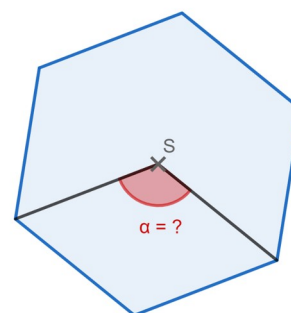
4)



5) Vypočítejte úhel alfa v pravidelném čtyř-úhelníku (čtverec).

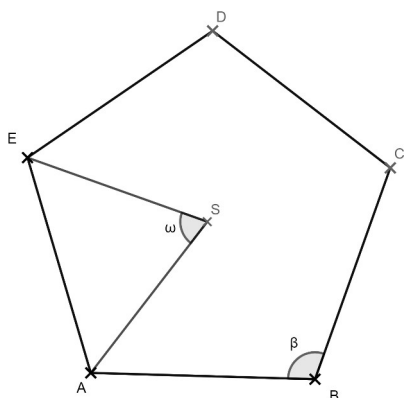


6) Vypočítejte úhel alfa v pravidelném šesti-úhelníku.

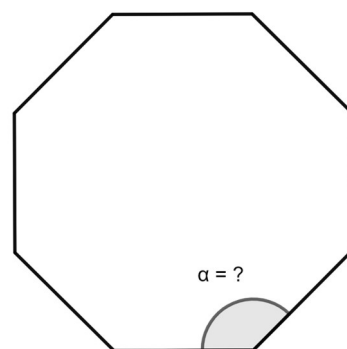




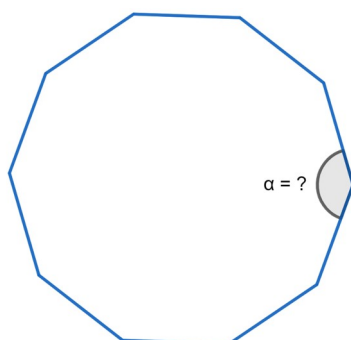
1) Vypočítejte úhel beta a omega v pravidelném pěti-úhelníku.



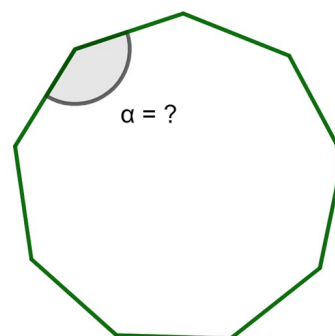
2) Vypočítejte úhel alfa v pravidelném osmi-úhelníku.



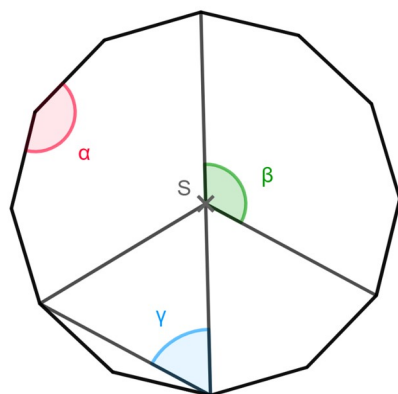
3) Vypočítejte úhel alfa v pravidelném deseti-úhelníku.



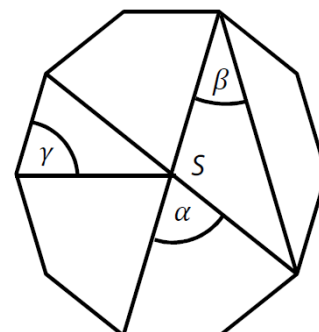
4) Vypočítejte úhel alfa v pravidelném devíti-úhelníku.



5) Vypočítej úhly α , β , γ v pravidelném dvanácti-úhelníku.



6) Vypočítej úhly α , β , γ v pravidelném deseti-úhelníku. (cernat 2018)



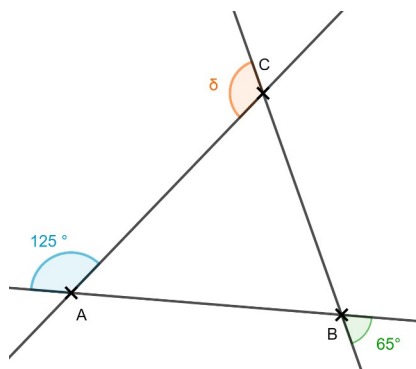
Procvičování 1

Vypočítej označené úhly.

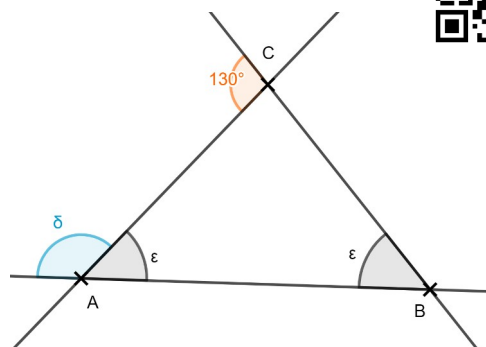
https://youtu.be/sZX7Ev_8RSQ



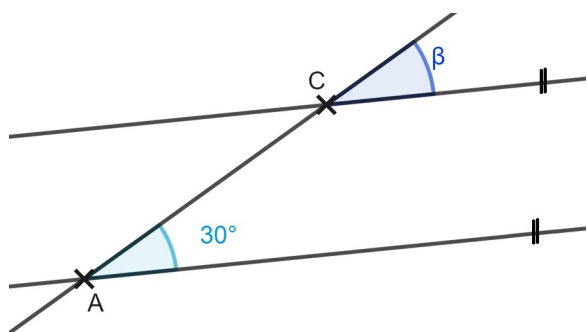
1)



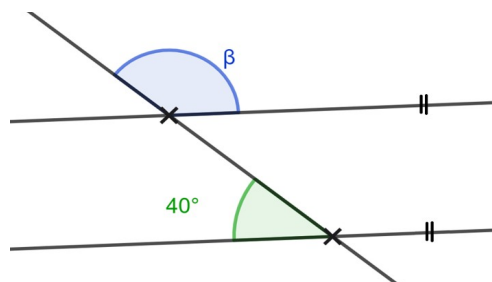
2)



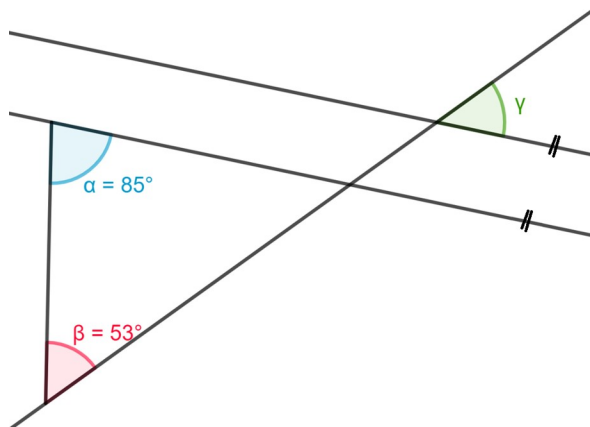
3)



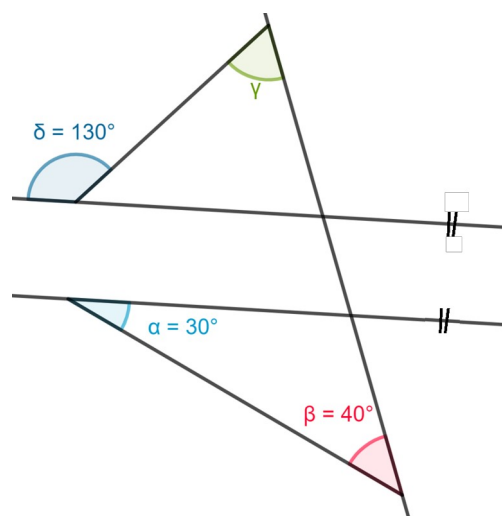
4)



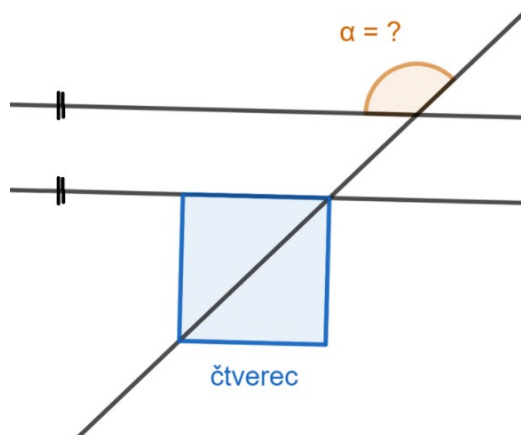
5)



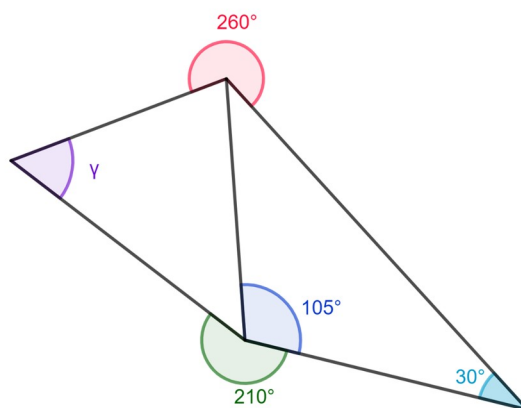
6)



7)



8)

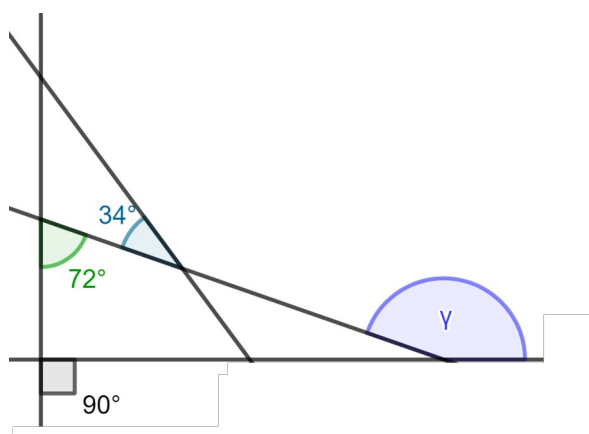


Procvičování 2
Dopočítej chybějící úhly.

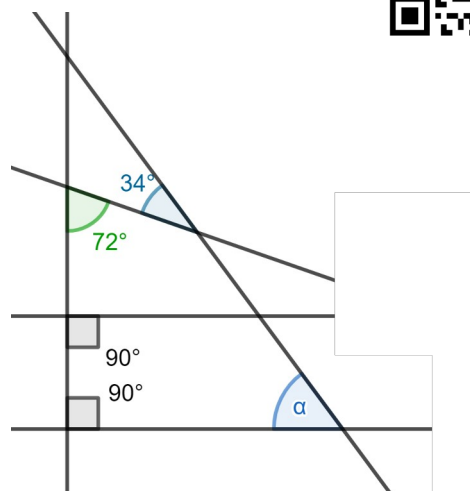
<https://youtu.be/BWB3CUWGhco>



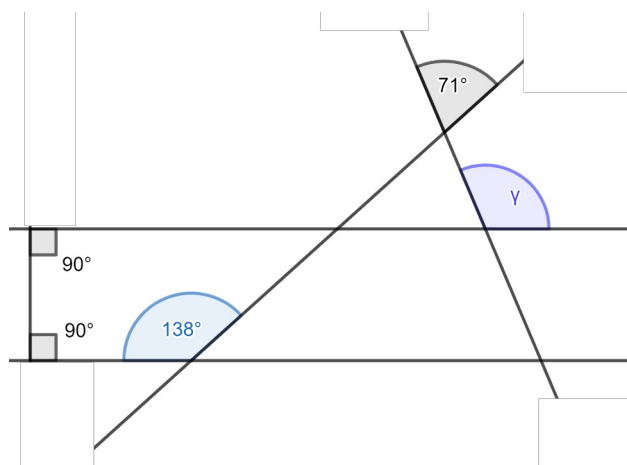
1)



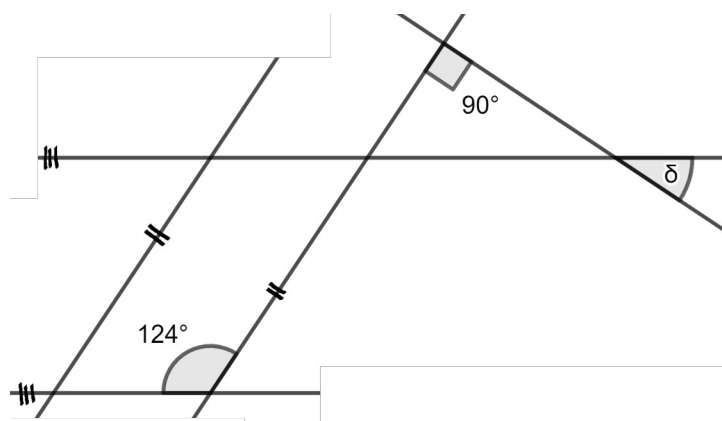
2)



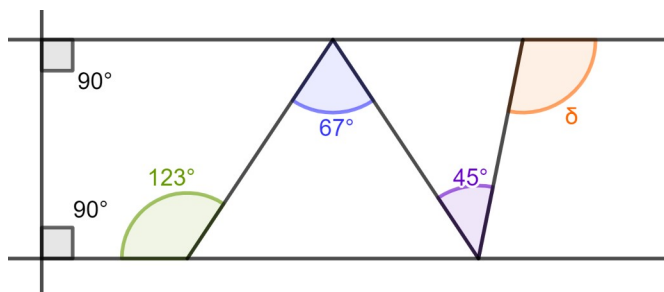
3)



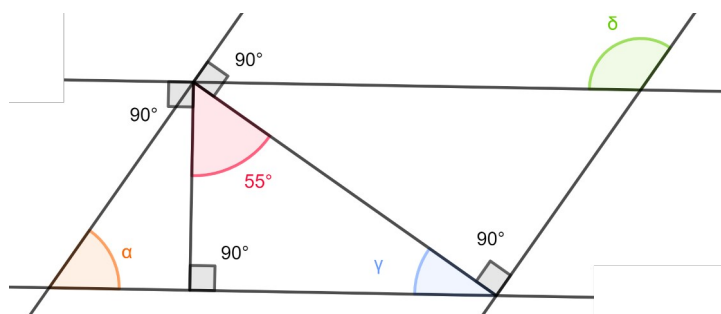
4)



5)



6)



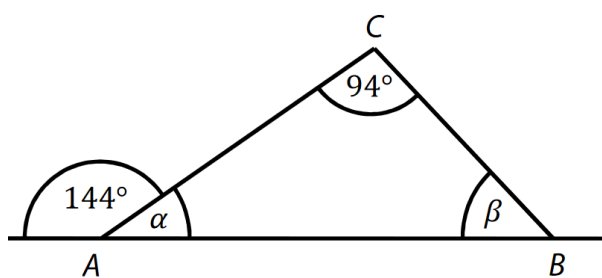
Procvičování 3

Dopočítej chybějící úhly.

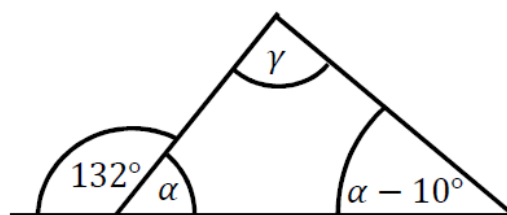
https://youtu.be/6jP_D3FoTEg



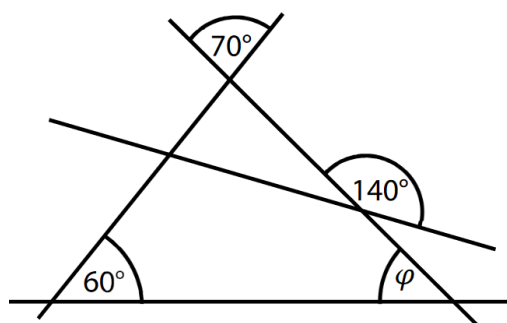
1)



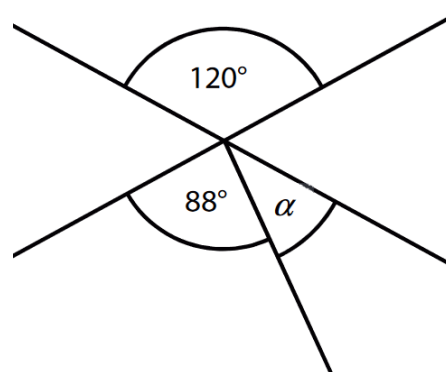
2)



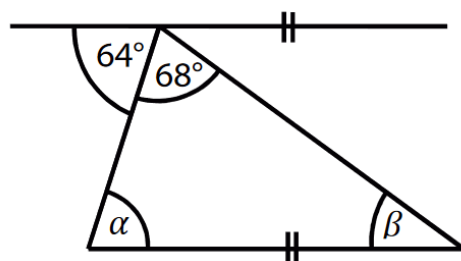
3)



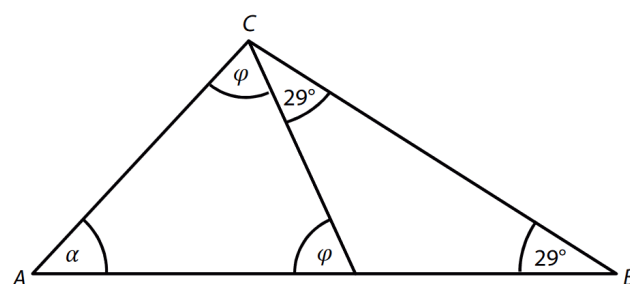
4)



5)



6)



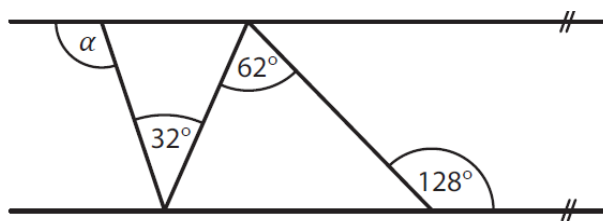
Procvičování 4

Dopočítej chybějící úhly.

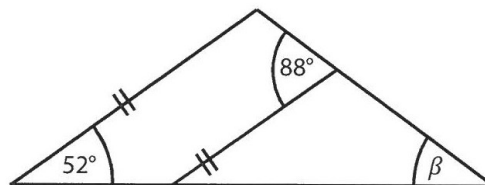
https://youtu.be/yiFysrQDc_M



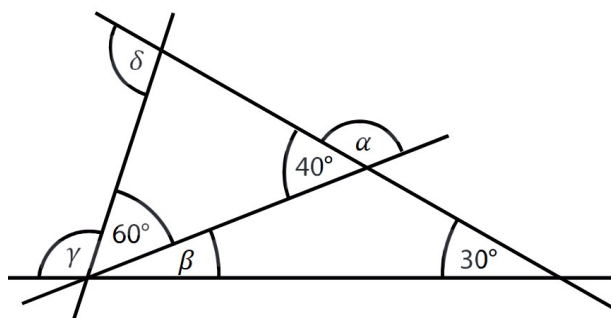
1)



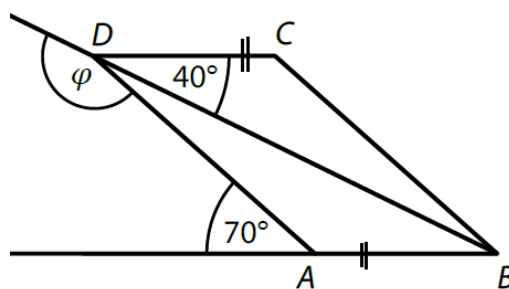
2)



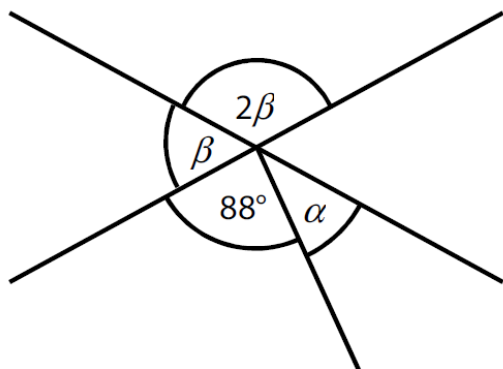
3)



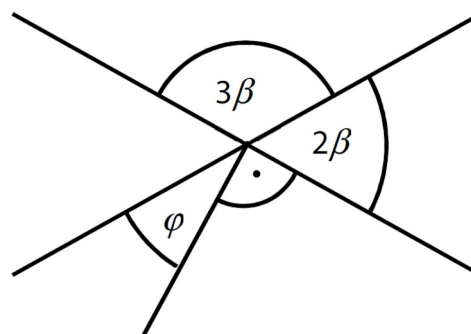
4)



5)



6)



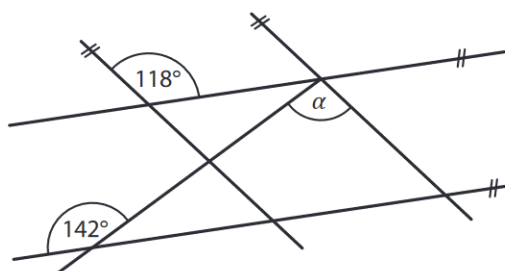
Procvičování 5

Dopočítej chybějící úhly.

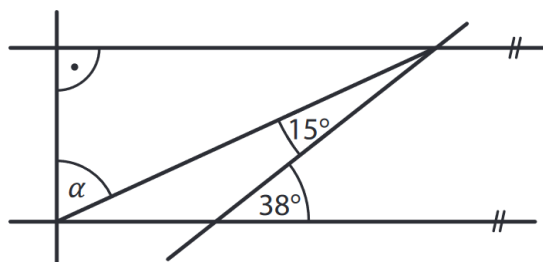
<https://youtu.be/A1NdsOLhGel>



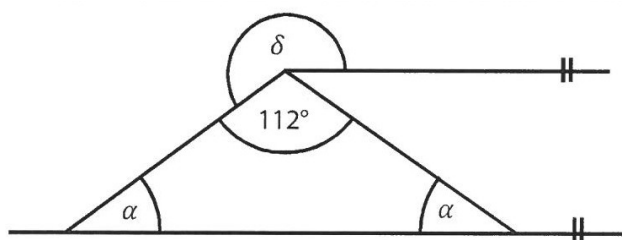
1)



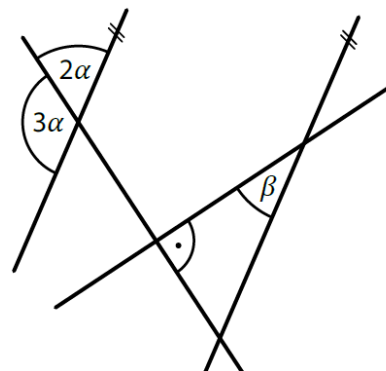
2)



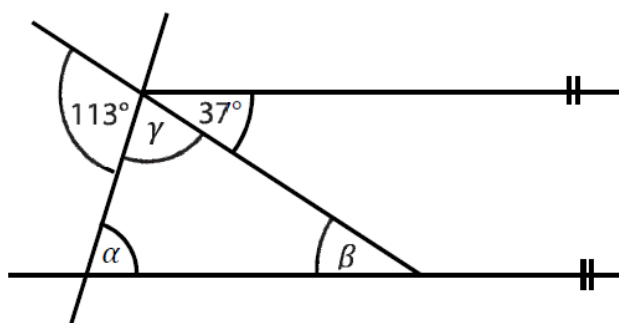
3)



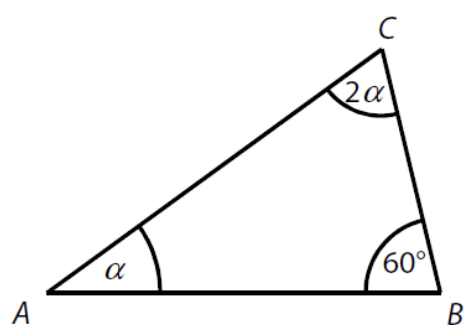
4)



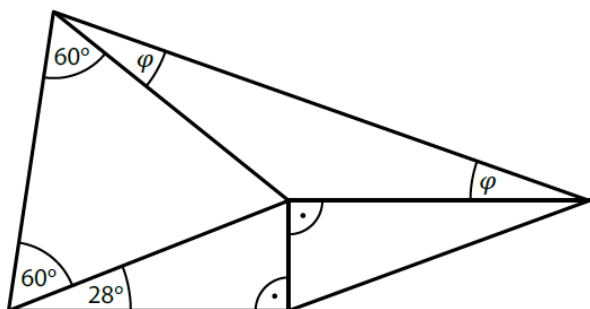
5)



6)



7)



8)

