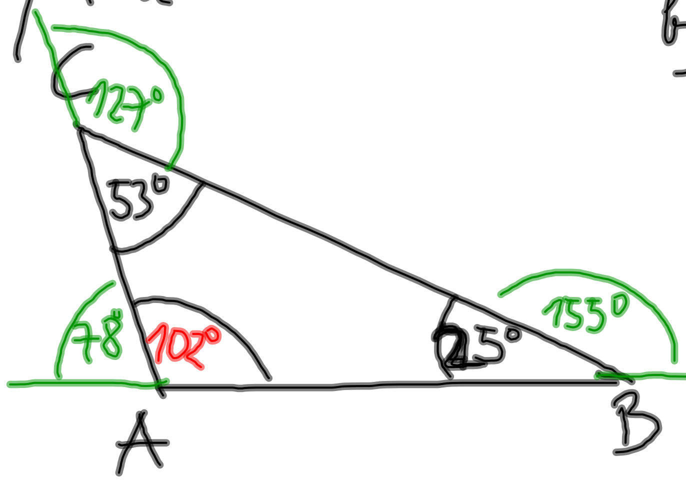
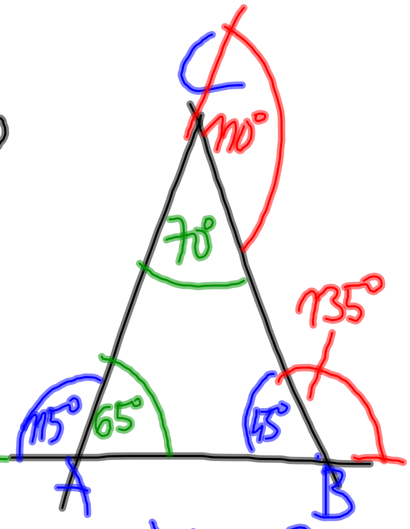
62/4.a



b,

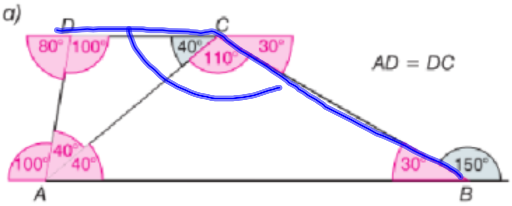


ABC∢ = 45°

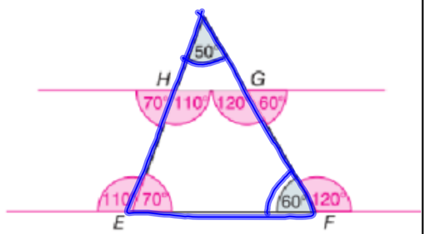
Oldalrészlet MS-2317 67. o. / 4

3. Számítsuk ki az alábbi trapézok külső és belső szögeit!

a)



b)



ABC∢: 30°

BCD∢: 150°

ADC∢: 100°

DAB∢: 80°

A trapéz külső szögei: 100°, 150°, 30°, 80°

EFG∢: 60°

FEH∢: 70°

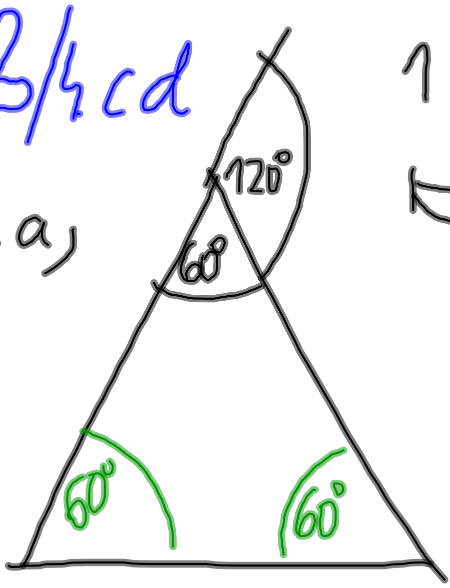
EHG∢: 110°

HGF∢: 120°

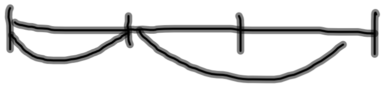
A trapéz külső szögei: 120°, 110°, 70°, 60°

Hf: 63/4 cd

63/5. a)



1 : 2



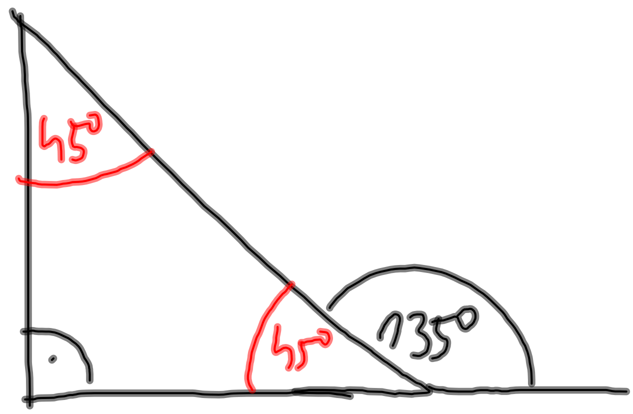
b) 1:2:3

α	β	γ	Ö
x	2x	3x	180°

$$x+2x+3x=180^\circ$$
$$6x=180^\circ \quad /:6$$
$$x=30^\circ$$

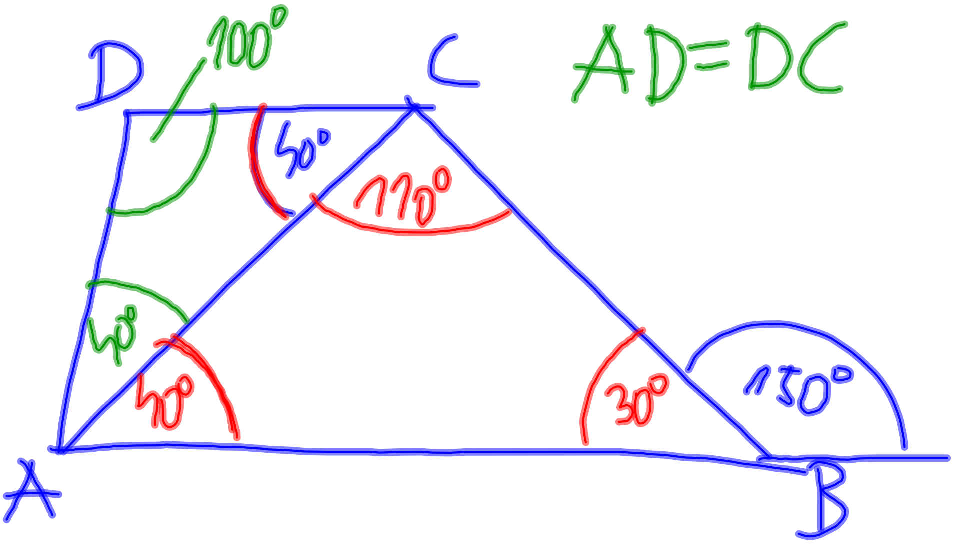
Tehát a Δ ∢-i 30°; 60°; 90°-sak.

51.

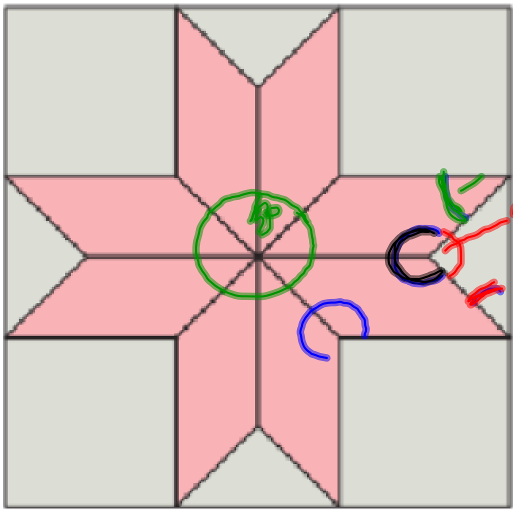


67/3.

a



AD=DC



$\sphericalangle = 270°$

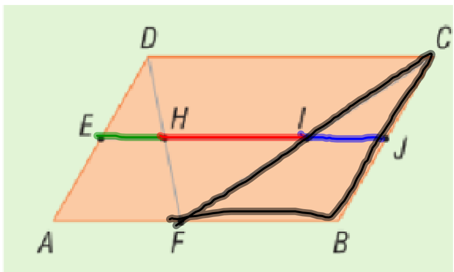
$\sphericalangle = 270°$

$\sphericalangle = 45°$

$\sphericalangle = 45°$

13. Egy *ABCD* paralelogramma *AB* oldalán vegyünk fel egy tetszőleges *F* pontot! Jelölje *E* az *AD*, *H* a *FD*, *I* az *FC*, *J* pedig a *BC* szakasz felezőpontját!

Igazoljuk, hogy $EH + IJ = HI$! (➡)



Biz.: ABCD▱:

$EJ = AB = DC$, mert EJ a középvonal.

$AFD\triangle$: $EH = \frac{AF}{2}$, mert EH középvonal

$FBC\triangle$: $IJ = \frac{FB}{2}$, mert IJ középvonal

$\left.\right\} EH + IJ = \frac{AB}{2}$

$EJ = AB \Rightarrow EH + IJ = \frac{EJ}{2} = HI$

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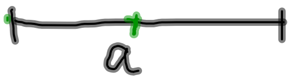
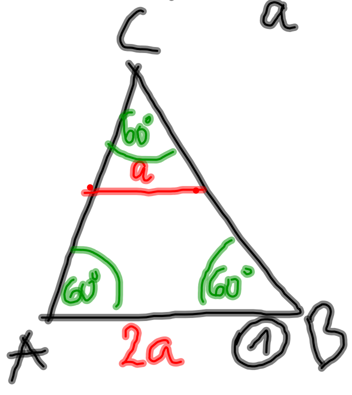
12.





F: ABC△ szerk.

Szerk. menete: (1) AB felvétele

(2) A-ba 60°-s ∢-et

(3) B-be 60°-s ∢-et

$\Big\}$ C