

Arbeitsblatt

16.09.2020

Kostenlos auf dw-aufgaben.de

Aufgaben-Quickname: 8700

Aufgabe 1

Markiere die richtigen Aussagen.

Quick:
8700

a)

$\times \frac{|FU|}{|KK'|} = \frac{|FU'|}{|U'K'|}$
 $\times \frac{|FU'|}{|UU'|} = \frac{|KK'|}{|FK'|}$
 $\checkmark \frac{|KK'|}{|UU'|} = \frac{|FK'|}{|FU'|}$
 $\checkmark \frac{|FU|}{|UU'|} = \frac{|FK|}{|KK'|}$

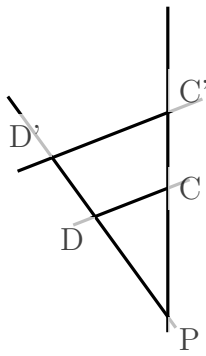
b)

$\times \frac{|MM'|}{|SM|} = \frac{|SN|}{|NN'|}$
 $\checkmark \frac{|MM'|}{|NN'|} = \frac{|SM'|}{|SN'|}$
 $\checkmark \frac{|SM'|}{|SM|} = \frac{|SN'|}{|SN|}$
 $\times \frac{|SM|}{|SM'|} = \frac{|SN'|}{|SN|}$

c)

$\checkmark \frac{|DD'|}{|LL'|} = \frac{|KD|}{|KL|}$
 $\times \frac{|KD|}{|KD'|} = \frac{|KL'|}{|KL|}$
 $\checkmark \frac{|KD|}{|KD'|} = \frac{|KL|}{|KL'|}$
 $\checkmark \frac{|KD'|}{|KD|} = \frac{|KL'|}{|KL|}$

d)



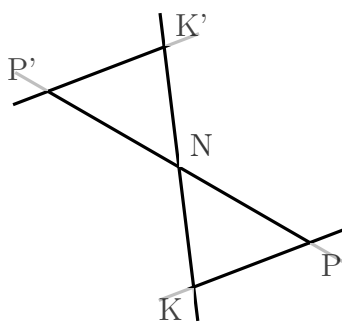
$$\begin{aligned} \sqrt{\frac{|PC'|}{|PC|}} &= \frac{|PD'|}{|PD|} \\ \times \frac{|CC'|}{|DD'|} &= \frac{|PD|}{|PC|} \\ \sqrt{\frac{|CC'|}{|PC|}} &= \frac{|DD'|}{|PD|} \\ \sqrt{\frac{|CC'|}{|DD'|}} &= \frac{|PC'|}{|PD'|} \end{aligned}$$

Aufgabe 2

Markiere die richtigen Aussagen.

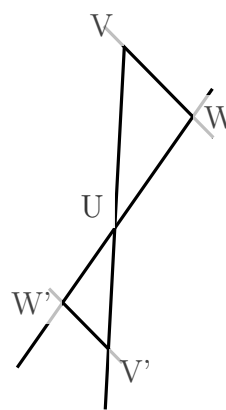
Quick:
8700

a)



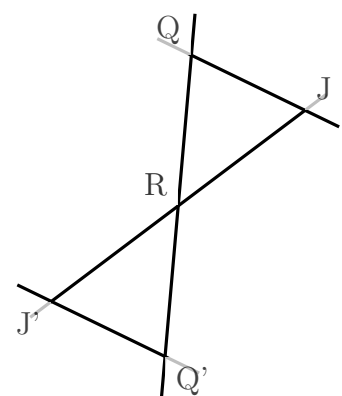
$$\begin{aligned} \times \frac{|NK|}{|KK'|} &= \frac{|PP'|}{|NP|} \\ \times \frac{|KK'|}{|PP'|} &= \frac{|NP|}{|NK|} \\ \sqrt{\frac{|KK'|}{|PP'|}} &= \frac{|NK|}{|NP|} \\ \sqrt{\frac{|NK'|}{|KK'|}} &= \frac{|NP'|}{|PP'|} \end{aligned}$$

b)



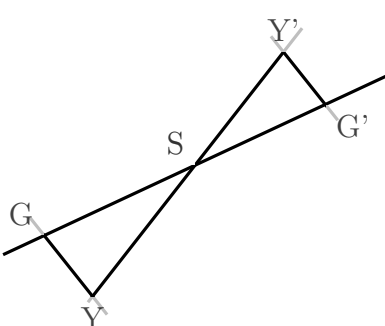
$$\begin{aligned} \times \frac{|UW|}{|UV|} &= \frac{|UV'|}{|UW'|} \\ \sqrt{\frac{|UW|}{|UW'|}} &= \frac{|UV|}{|UV'|} \\ \sqrt{\frac{|UW|}{|WW'|}} &= \frac{|UV|}{|VV'|} \\ \sqrt{\frac{|UW'|}{|UW|}} &= \frac{|UV'|}{|UV|} \end{aligned}$$

c)



$$\begin{aligned} \sqrt{\frac{|RJ|}{|RQ|}} &= \frac{|RJ'|}{|RQ'} \\ \times \frac{|RJ|}{|RJ'|} &= \frac{|RQ'}{|RQ|} \\ \times \frac{|RJ|}{|RQ|} &= \frac{|RQ'}{|RJ'|} \\ \sqrt{\frac{|RJ'|}{|RJ|}} &= \frac{|RQ'}{|RQ|} \end{aligned}$$

d)

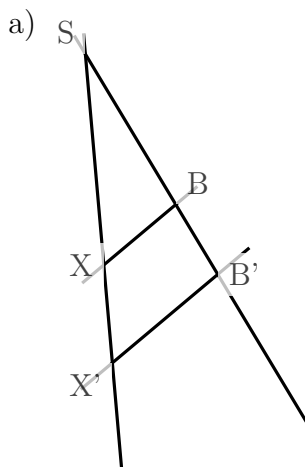


$$\begin{aligned} \sqrt{\frac{|SY|}{|SG|}} &= \frac{|SY'|}{|SG'} \\ \times \frac{|SG'|}{|GG'|} &= \frac{|YY'|}{|SY'|} \\ \times \frac{|GG'|}{|YY'|} &= \frac{|SY'|}{|SG'} \\ \times \frac{|SY|}{|SG|} &= \frac{|SG'}{|SY'} \end{aligned}$$

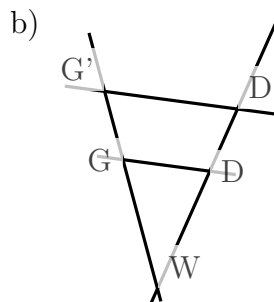
Aufgabe 3

Quick:
8700

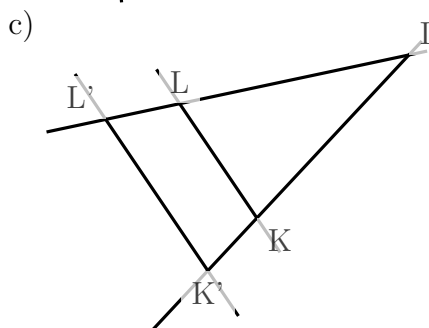
Markiere die richtigen Aussagen.



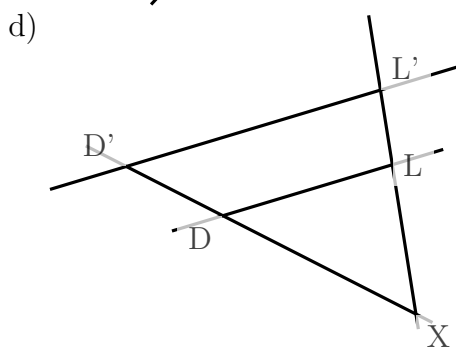
$$\begin{aligned} \times \frac{|X'B'|}{|XB|} &= \frac{|SX|}{|SX'|} \\ \times \frac{|XB|}{|X'B'|} &= \frac{|SX'|}{|SX|} \\ \checkmark \frac{|XB|}{|X'B'|} &= \frac{|SB|}{|SB'|} \\ \checkmark \frac{|X'B'|}{|XB|} &= \frac{|SX'|}{|SX|} \end{aligned}$$



$$\begin{aligned} \times \frac{|D'G'|}{|DG|} &= \frac{|WG|}{|WG'|} \\ \times \frac{|D'G'|}{|DG|} &= \frac{|WD|}{|WD'|} \\ \checkmark \frac{|DG|}{|D'G'|} &= \frac{|WG|}{|WG'|} \\ \checkmark \frac{|D'G'|}{|DG|} &= \frac{|WD|}{|WD'|} \end{aligned}$$



$$\begin{aligned} \times \frac{|L'K'|}{|LK|} &= \frac{|IL|}{|IL'|} \\ \checkmark \frac{|L'K'|}{|LK|} &= \frac{|IL'|}{|IL|} \\ \checkmark \frac{|LK|}{|L'K'|} &= \frac{|IK|}{|IK'|} \\ \checkmark \frac{|L'K'|}{|LK|} &= \frac{|IK'|}{|IK|} \end{aligned}$$

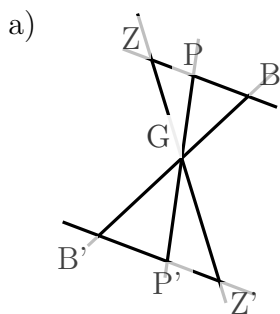


$$\begin{aligned} \checkmark \frac{|LD|}{|L'D'|} &= \frac{|XL|}{|XL'|} \\ \checkmark \frac{|L'D'|}{|LD|} &= \frac{|XD|}{|XD'|} \\ \times \frac{|LD|}{|L'D'|} &= \frac{|XD'|}{|XD|} \\ \checkmark \frac{|L'D'|}{|LD|} &= \frac{|XL'|}{|XL|} \end{aligned}$$

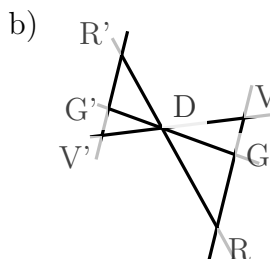
Aufgabe 4

Quick:
8700

Eine Aussage ist für jede Zeichnung richtig. Welche ist es?

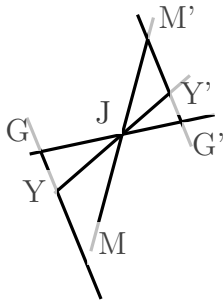


$$\begin{aligned} \times \frac{|GB'|}{|BB'|} &= \frac{|ZZ'|}{|GZ'|} \\ \times \frac{|GB|}{|BB'|} &= \frac{|PP'|}{|GP'|} \\ \checkmark \frac{|B'Z'|}{|BZ|} &= \frac{|GZ'|}{|GZ|} \\ \times \frac{|BB'|}{|GB|} &= \frac{|GZ|}{|ZZ'|} \end{aligned}$$



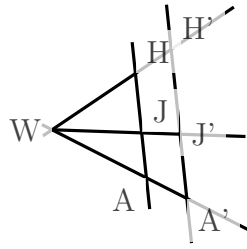
$$\begin{aligned} \times \frac{|VV'|}{|GG'|} &= \frac{|DG'|}{|DV'|} \\ \times \frac{|RR'|}{|DR'|} &= \frac{|DG'|}{|GG'|} \\ \times \frac{|DG|}{|DG'|} &= \frac{|DV'|}{|DV|} \\ \checkmark \frac{|GG'|}{|VV'|} &= \frac{|DG'|}{|DV'|} \end{aligned}$$

c)



$$\begin{aligned} \times \frac{|JM|}{|JG|} &= \frac{|JG'|}{|JM'|} \\ \sqrt{\frac{|MM'|}{|YY'|}} &= \frac{|JM|}{|JY|} \\ \times \frac{|GM|}{|G'M'|} &= \frac{|JM'|}{|JM|} \\ \times \frac{|G'M'|}{|GM|} &= \frac{|JM|}{|JM'|} \end{aligned}$$

d)



$$\begin{aligned} \times \frac{|H'J'|}{|HJ|} &= \frac{|WH|}{|W'H'|} \\ \sqrt{\frac{|JJ'|}{|AA'|}} &= \frac{|WJ|}{|WA|} \\ \times \frac{|AA'|}{|JJ'|} &= \frac{|WJ'|}{|WA'|} \\ \times \frac{|WA'|}{|WA|} &= \frac{|WH|}{|W'H'|} \end{aligned}$$

Viel Erfolg!