

# Arbeitsblatt

16.09.2020

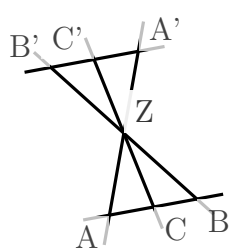
Kostenlos auf dw-aufgaben.de

Aufgaben-Quickname: 8700

## Aufgabe 1

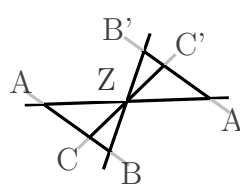
Eine Aussage ist für jede Zeichnung richtig. Welche ist es?

Quick:  
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a) 

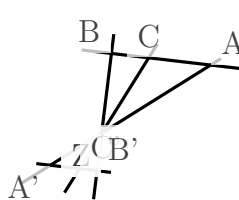
$$\sqrt{\frac{|ZC|}{|CC'|}} = \frac{|ZB|}{|BB'|}$$

$$\times \frac{|ZA'|}{|AA'|} = \frac{|CC'|}{|ZC'|}$$

b) 

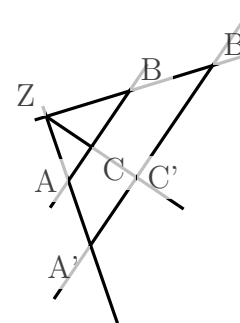
$$\sqrt{\frac{|ZA|}{|AA'|}} = \frac{|ZC|}{|CC'|}$$

$$\times \frac{|B'C'|}{|BC|} = \frac{|AC|}{|A'C'|}$$

c) 

$$\times \frac{|BB'|}{|CC'|} = \frac{|ZC|}{|ZB|}$$

$$\sqrt{\frac{|ZC|}{|ZB|}} = \frac{|ZC'|}{|ZB'|}$$

d) 

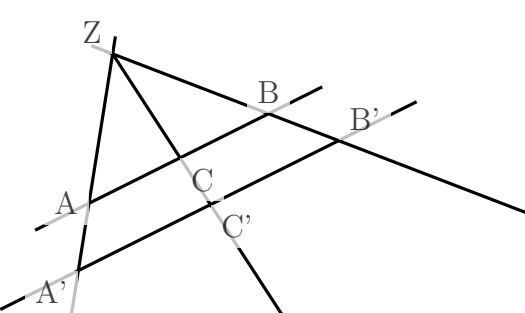
$$\sqrt{\frac{|AA'|}{|BB'|}} = \frac{|ZA|}{|ZB|}$$

$$\times \frac{|AB|}{|A'B'|} = \frac{|ZB'|}{|ZB|}$$

## Aufgabe 2

Markiere die richtigen Aussagen.

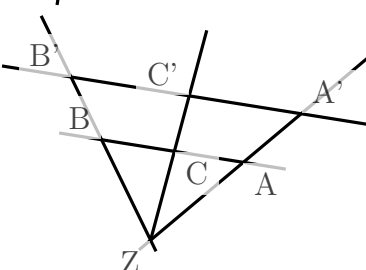
Quick:  
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a) 

$$\sqrt{\frac{|B'C'|}{|BC|}} = \frac{|ZB'|}{|ZB|}$$

$$\sqrt{\frac{|BC|}{|B'C'|}} = \frac{|AC|}{|A'C'|}$$

$$\times \frac{|CC'|}{|BB'|} = \frac{|ZB|}{|ZC|}$$

b) 

$$\times \frac{|BB'|}{|AA'|} = \frac{|ZA|}{|ZB|}$$

$$\sqrt{\frac{|B'C'|}{|BC|}} = \frac{|ZC'|}{|ZC|}$$

$$\sqrt{\frac{|AA'|}{|ZA|}} = \frac{|BB'|}{|ZB|}$$

c)

$$\begin{aligned} \sqrt{\frac{|B'C'|}{|BC|}} &= \frac{|A'C'|}{|AC|} \\ \times \frac{|AB|}{|A'B'|} &= \frac{|ZA'}{|ZA|} \\ \sqrt{\frac{|CC'|}{|ZC|}} &= \frac{|BB'|}{|ZB|} \end{aligned}$$

d)

$$\begin{aligned} \sqrt{\frac{|A'C'|}{|AC|}} &= \frac{|ZA'}{|ZA|} \\ \sqrt{\frac{|AB|}{|A'B'|}} &= \frac{|ZA|}{|ZA'|} \\ \times \frac{|CC'|}{|AA'|} &= \frac{|ZA'}{|ZC'|} \end{aligned}$$

Aufgabe 3

Markiere die richtigen Aussagen.

Quick:  
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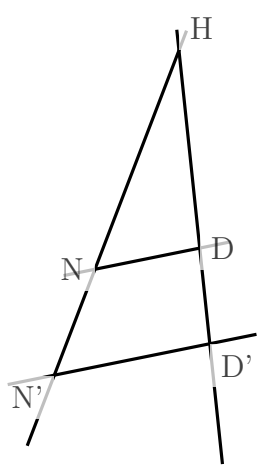
a)

$$\begin{aligned} \times \frac{|RR'|}{|QQ'|} &= \frac{|KQ'|}{|KR'} \\ \sqrt{\frac{|KR|}{|RR'|}} &= \frac{|KQ|}{|QQ'|} \\ \times \frac{|KR|}{|RR'|} &= \frac{|QQ'|}{|KQ|} \\ \sqrt{\frac{|RR'|}{|QQ'|}} &= \frac{|KR'}{|KQ'} \end{aligned}$$

b)

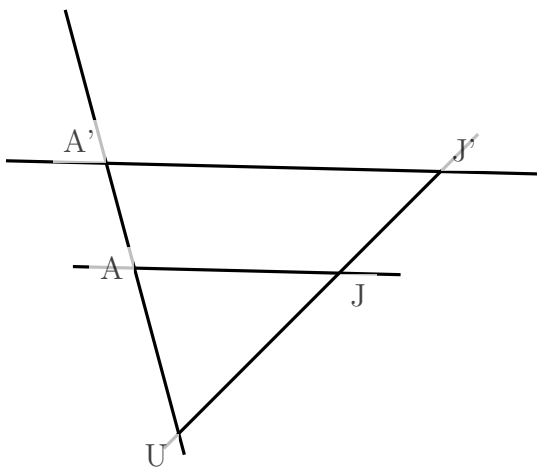
$$\begin{aligned} \sqrt{\frac{|RL'|}{|RL|}} &= \frac{|RV'}{|RV|} \\ \sqrt{\frac{|LL'|}{|RL'|}} &= \frac{|VV'}{|RV'|} \\ \times \frac{|RL|}{|LL'|} &= \frac{|VV'|}{|RV|} \\ \times \frac{|RL'|}{|RL|} &= \frac{|RV|}{|RV'|} \end{aligned}$$

c)



$$\begin{aligned} \sqrt{\frac{|DD'|}{|NN'|}} &= \frac{|HD'|}{|HN'|} \\ \sqrt{\frac{|HN'|}{|HN|}} &= \frac{|HD'|}{|HD|} \\ \times \frac{|HN'|}{|HN|} &= \frac{|HD'|}{|HD|} \\ \sqrt{\frac{|NN'|}{|DD'|}} &= \frac{|HN|}{|HD|} \end{aligned}$$

d)



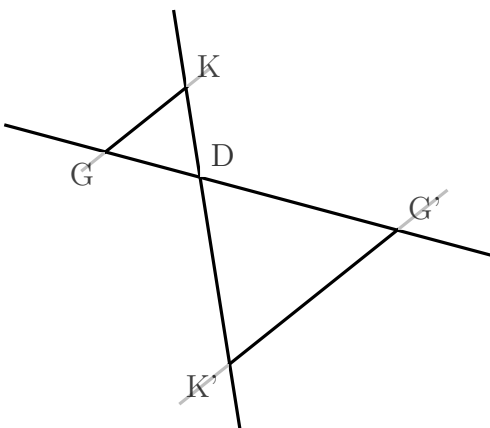
$$\begin{aligned} \sqrt{\frac{|JJ'|}{|AA'|}} &= \frac{|UJ'|}{|UA'|} \\ \times \frac{|JJ'|}{|UJ|} &= \frac{|UA|}{|AA'|} \\ \sqrt{\frac{|JJ'|}{|UJ|}} &= \frac{|AA'|}{|UA|} \\ \times \frac{|UJ|}{|UJ'|} &= \frac{|UA'|}{|UA|} \end{aligned}$$

Aufgabe 4

Markiere die richtigen Aussagen.

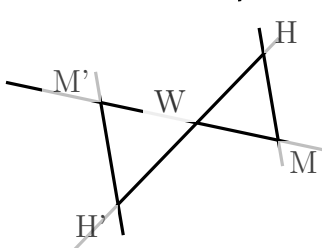
Quick:  
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a)



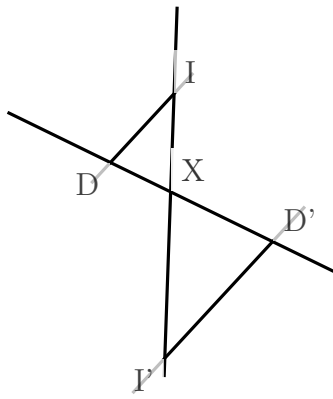
$$\begin{aligned} \sqrt{\frac{|KK'|}{|DK|}} &= \frac{|GG'|}{|DG|} \\ \times \frac{|DK|}{|KK'|} &= \frac{|GG'|}{|DG|} \\ \sqrt{\frac{|KK'|}{|GG'|}} &= \frac{|DK'|}{|DG'|} \\ \times \frac{|KK'|}{|DK|} &= \frac{|DG|}{|GG'|} \end{aligned}$$

b)



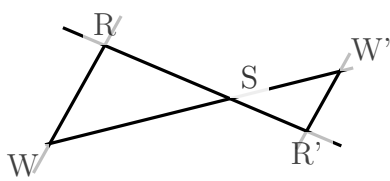
$$\begin{aligned} \sqrt{\frac{|WM|}{|WH|}} &= \frac{|WM'|}{|WH'|} \\ \sqrt{\frac{|MM'|}{|MM|}} &= \frac{|HH'|}{|HH|} \\ \sqrt{\frac{|MM'|}{|WM|}} &= \frac{|HH'|}{|WH|} \\ \times \frac{|WM|}{|HH'|} &= \frac{|WM'|}{|M'H'|} \end{aligned}$$

c)



$$\begin{aligned} \sqrt{\frac{|DD'|}{|II'|}} &= \frac{|XD|}{|XI|} \\ \times \frac{|II'|}{|DD'|} &= \frac{|XD'|}{|XI'|} \\ \sqrt{\frac{|DD'|}{|II'|}} &= \frac{|XD'|}{|XI'|} \\ \sqrt{\frac{|XD|}{|XI|}} &= \frac{|XD'|}{|XI'|} \end{aligned}$$

d)



$$\begin{aligned} \times \frac{|SR|}{|RR'|} &= \frac{|WW'|}{|SW|} \\ \sqrt{\frac{|SR'|}{|RR'|}} &= \frac{|SW'|}{|WW'|} \\ \sqrt{\frac{|SR|}{|RR'|}} &= \frac{|SW|}{|WW'|} \\ \sqrt{\frac{|SR|}{|RR'|}} &= \frac{|SW|}{|WW'|} \end{aligned}$$

Viel Erfolg!