

# Arbeitsblatt

16.09.2020

Kostenlos auf [dw-aufgaben.de](http://dw-aufgaben.de)

Aufgaben-Quickname: 8700

## Aufgabe 1

Markiere die richtigen Aussagen.

a)

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

(Zwei richtig)

b)

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

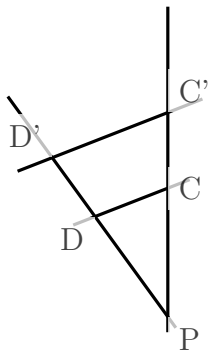
(Zwei richtig)

c)

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

(Drei richtig)

d)

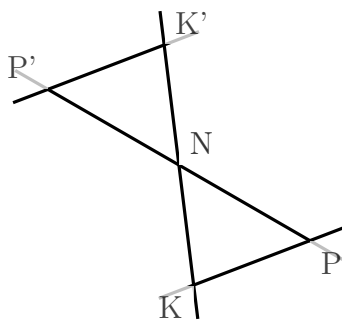


- $\frac{|PC'|}{|PC|} = \frac{|PD'|}{|PD|}$
  - $\frac{|CC'|}{|DD'|} = \frac{|PD|}{|PC|}$
  - $\frac{|CC'|}{|PC|} = \frac{|DD'|}{|PD|}$
  - $\frac{|CC'|}{|DD'|} = \frac{|PC'|}{|PD'|}$
- (Drei richtig)

### Aufgabe 2

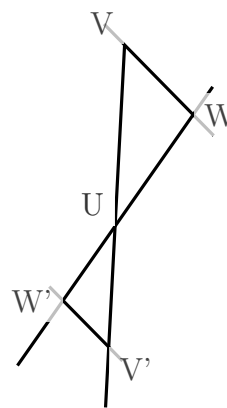
Markiere die richtigen Aussagen.

a)



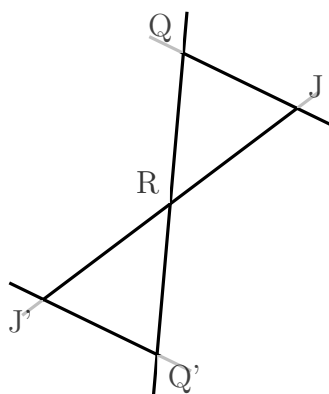
- $\frac{|NK|}{|KK'|} = \frac{|PP'|}{|NP|}$
- $\frac{|KK'|}{|PP'|} = \frac{|NP|}{|NK|}$
- $\frac{|KK'|}{|PP'|} = \frac{|NK|}{|NP|}$
- $\frac{|NK'|}{|KK'} = \frac{|NP'}{|PP'}$

b)



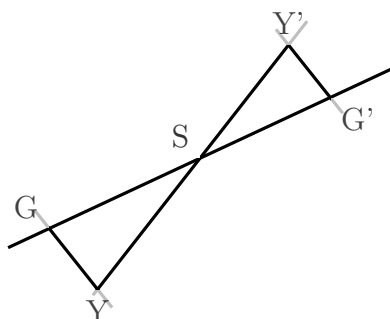
- $\frac{|UW|}{|UV|} = \frac{|UV'|}{|UW'}$
- $\frac{|WW'|}{|UW|} = \frac{|VV'|}{|UV|}$
- $\frac{|UW|}{|WW'|} = \frac{|UV|}{|VV'|}$
- $\frac{|UW'|}{|UW|} = \frac{|UV'|}{|UV|}$

c)



- $\frac{|RJ|}{|RQ|} = \frac{|RJ'|}{|RQ'}$
- $\frac{|RJ|}{|RJ'|} = \frac{|RQ'}{|RQ|}$
- $\frac{|RJ|}{|RQ|} = \frac{|RQ'}{|RJ'|}$
- $\frac{|RJ'|}{|RJ|} = \frac{|RQ'}{|RQ|}$

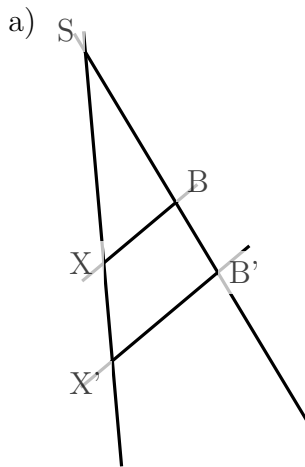
d)



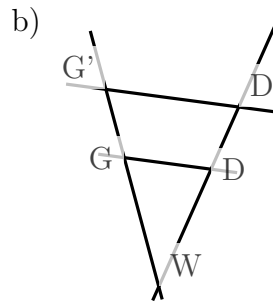
- $\frac{|SY|}{|SG|} = \frac{|SY'}{|SG'}$
- $\frac{|SG'}{|GG'} = \frac{|YY'}{|SY'}$
- $\frac{|GG'}{|YY'} = \frac{|SY'}{|SG'}$
- $\frac{|SY|}{|SG|} = \frac{|SG'}{|SY'}$

### Aufgabe 3

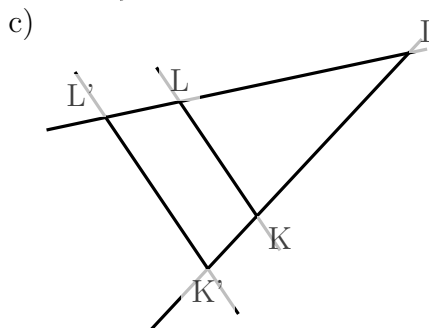
Markiere die richtigen Aussagen.



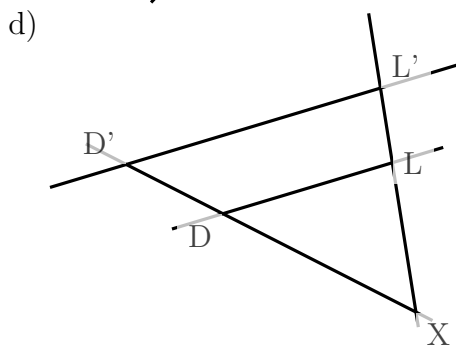
- $\frac{|X'B'|}{|XB|} = \frac{|SX|}{|SX'}$
- $\frac{|XB|}{|X'B'|} = \frac{|SX'}{|SX|}$
- $\frac{|XB|}{|X'B'|} = \frac{|SB|}{|SB'|}$
- $\frac{|X'B'|}{|XB|} = \frac{|SX'}{|SX|}$



- $\frac{|D'G'|}{|DG|} = \frac{|WG|}{|WG'|}$
- $\frac{|D'G'|}{|DG|} = \frac{|WD|}{|WD'|}$
- $\frac{|D'G'|}{|DG|} = \frac{|WG'}{|WG|}$
- $\frac{|DG|}{|D'G'|} = \frac{|WG|}{|WG'|}$
- $\frac{|D'G'|}{|DG|} = \frac{|WD'}{|WD|}$



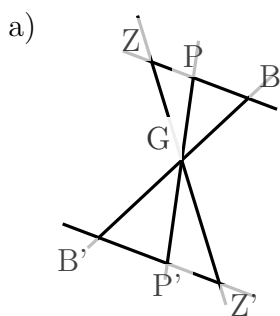
- $\frac{|L'K'|}{|LK|} = \frac{|IL|}{|IL'}$
- $\frac{|L'K'|}{|LK|} = \frac{|IL'}{|IL|}$
- $\frac{|LK|}{|L'K'|} = \frac{|IK|}{|IK'}$
- $\frac{|L'K'|}{|LK|} = \frac{|IK'}{|IK|}$



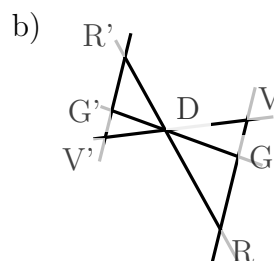
- $\frac{|LD|}{|L'D'|} = \frac{|XL|}{|XL'}$
- $\frac{|L'D'|}{|LD|} = \frac{|XD'}{|XD|}$
- $\frac{|LD|}{|L'D'|} = \frac{|XD'}{|XD|}$
- $\frac{|L'D'|}{|LD|} = \frac{|XL'}{|XL|}$

### Aufgabe 4

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

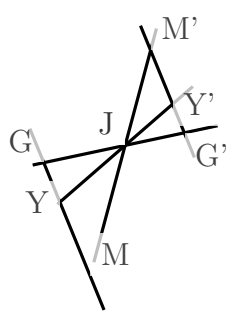


- $\frac{|GB'|}{|BB'|} = \frac{|ZZ'}{|GZ'}$
- $\frac{|GB|}{|BB'|} = \frac{|PP'}{|GP'}$
- $\frac{|B'Z'|}{|BZ|} = \frac{|GZ'}{|GZ|}$
- $\frac{|BB'|}{|GB|} = \frac{|GZ|}{|ZZ|}$



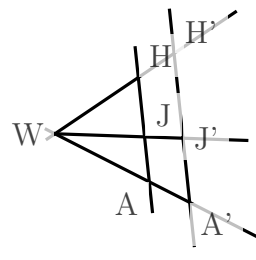
- $\frac{|VV'}{|GG'} = \frac{|DG'}{|DV'}$
- $\frac{|RR'}{|DR'} = \frac{|DG'}{|GG'}$
- $\frac{|DG|}{|DG'} = \frac{|DV'}{|DV|}$
- $\frac{|GG'}{|VV'} = \frac{|DG'}{|DV'}$

c)



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

d)



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

Viel Erfolg!