

# Arbeitsblatt

16.09.2020

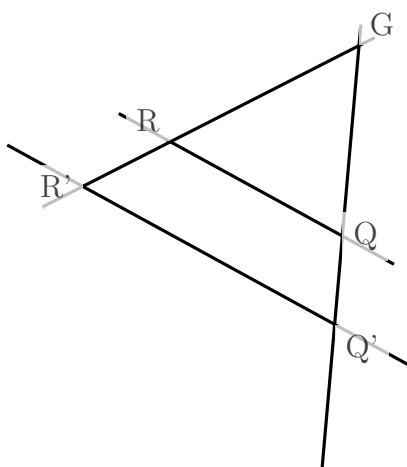
Kostenlos auf [dw-aufgaben.de](http://dw-aufgaben.de)

Aufgaben-Quickname: 8700

## Aufgabe 1

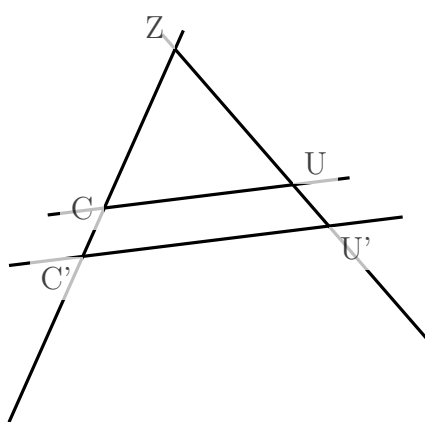
Markiere die richtigen Aussagen.

a)



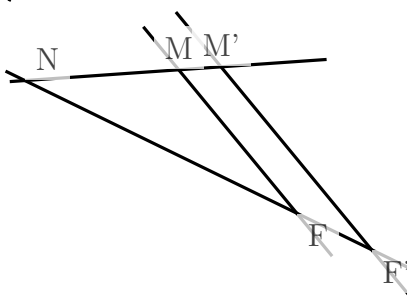
- $\frac{|R'Q'|}{|RQ|} = \frac{|GQ'|}{|GQ|}$
- $\frac{|RQ|}{|R'Q'|} = \frac{|GR|}{|GR'|}$
- $\frac{|GR|}{|GQ'|} = \frac{|GR'|}{|R'Q'|}$
- $\frac{|R'Q'|}{|RQ|} = \frac{|GR'|}{|GR|}$

b)

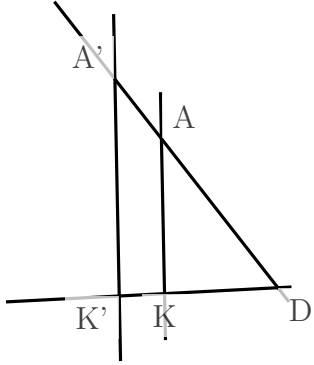


- $\frac{|C'U'|}{|CU|} = \frac{|ZU|}{|ZU'|}$
- $\frac{|C'U'|}{|CU|} = \frac{|ZU'|}{|ZU|}$
- $\frac{|C'U'|}{|CU|} = \frac{|ZC'|}{|ZC|}$
- $\frac{|CU|}{|C'U'|} = \frac{|ZC|}{|ZC'|}$

c)



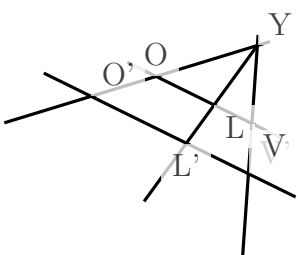
- $\frac{|FM|}{|F'M'|} = \frac{|NF|}{|NF'|}$
- $\frac{|FM|}{|F'M'|} = \frac{|NM|}{|NM'|}$
- $\frac{|NF|}{|MM'|} = \frac{|NF'|}{|F'M'|}$
- $\frac{|F'M'|}{|FM|} = \frac{|NM'|}{|NM|}$

d) 

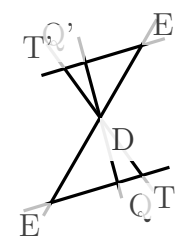
$\frac{|A'K'|}{|AK|} = \frac{|DA|}{|DA'|}$   
  $\frac{|AK|}{|A'K'|} = \frac{|DA'|}{|DA|}$   
  $\frac{|AK|}{|A'K'|} = \frac{|DK|}{|DK'|}$   
  $\frac{|A'K'|}{|AK|} = \frac{|DA'|}{|DA|}$

### Aufgabe 2

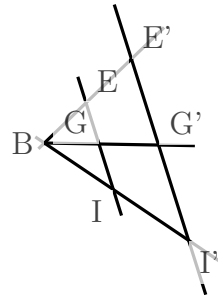
Eine Aussage ist für jede Zeichnung richtig. Welche ist es?

a) 

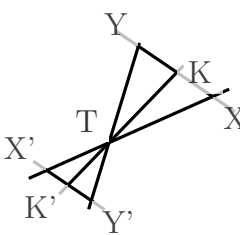
$\frac{|LL'|}{|VV'|} = \frac{|YV|}{|YL|}$   
  $\frac{|O'V'|}{|OV|} = \frac{|YV'|}{|YV|}$   
  $\frac{|YV|}{|YL|} = \frac{|YL'|}{|YV'|}$   
  $\frac{|YL|}{|YV|} = \frac{|YV'|}{|YL'|}$

b) 

$\frac{|DE|}{|QQ'|} = \frac{|DE'|}{|E'Q'|}$   
  $\frac{|DQ|}{|DQ'|} = \frac{|DT|}{|DT'|}$   
  $\frac{|EE'|}{|DE'|} = \frac{|QQ'|}{|DQ'|}$   
  $\frac{|T'Q'|}{|TQ|} = \frac{|DT|}{|DT'|}$

c) 

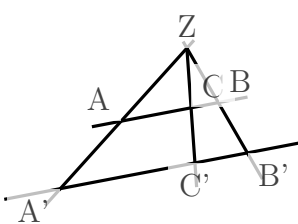
$\frac{|BG|}{|BI|} = \frac{|BG'|}{|BI'|}$   
  $\frac{|IG|}{|I'G'|} = \frac{|BG|}{|BI|}$   
  $\frac{|IE|}{|I'E'|} = \frac{|BI|}{|BI'|}$   
  $\frac{|GG'|}{|II'|} = \frac{|BI|}{|BG|}$

d) 

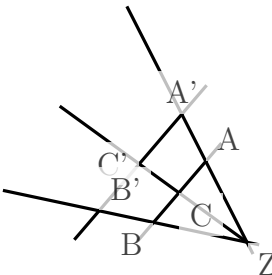
$\frac{|TY|}{|TK|} = \frac{|TK'|}{|TY'|}$   
  $\frac{|YK|}{|Y'K'|} = \frac{|TK|}{|TK'|}$   
  $\frac{|TK|}{|TK'|} = \frac{|TY|}{|TY'|}$   
  $\frac{|XX'|}{|YY'|} = \frac{|TY'|}{|TX'|}$

### Aufgabe 3

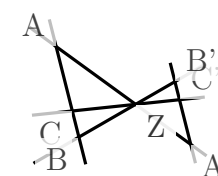
Eine Aussage ist für jede Zeichnung richtig. Welche ist es?

a) 

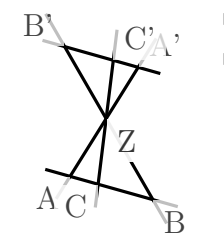
$\frac{|CC'|}{|BB'|} = \frac{|ZC|}{|ZB|}$   
  $\frac{|ZA'}{|AA'|} = \frac{|CC'|}{|ZC'|}$

b) 

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

c) 

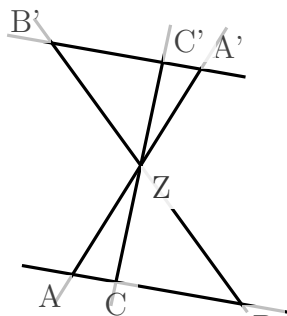
$\frac{|B'C'|}{|BC|} = \frac{|ZB|}{|ZB'|}$   
  $\frac{|AA'}{|BB'|} = \frac{|ZA'}{|ZB'|}$

d) 

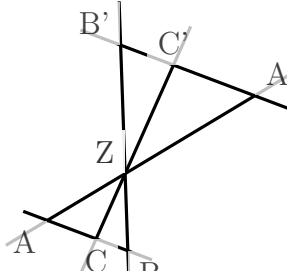
$\frac{|BB'|}{|CC'|} = \frac{|ZB'|}{|ZC'|}$   
  $\frac{|ZA|}{|ZB|} = \frac{|ZB'|}{|ZA'|}$

### Aufgabe 4

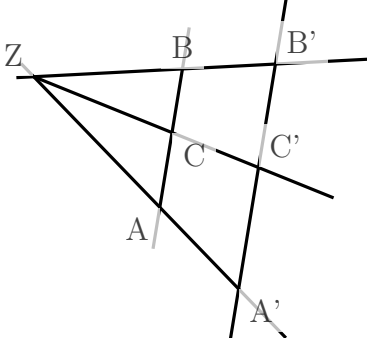
Markiere die richtigen Aussagen.

a) 

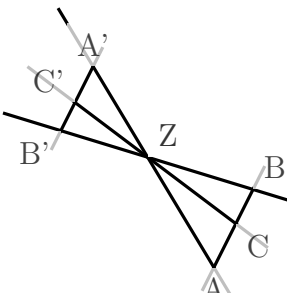
$\frac{|BC|}{|AC|} = \frac{|B'C'|}{|A'C'|}$   
  $\frac{|ZC|}{|ZA|} = \frac{|ZC'|}{|ZA'|}$   
  $\frac{|ZC|}{|ZC'|} = \frac{|ZB|}{|ZB'|}$   
 (Zwei richtig)

b) 

$\frac{|ZA|}{|AA'|} = \frac{|ZB|}{|BB'|}$   
  $\frac{|AA'|}{|ZA|} = \frac{|CC'|}{|ZC'|}$   
  $\frac{|BC|}{|B'C'|} = \frac{|ZC'|}{|ZC|}$   
 (Eine richtig)

c) 

$\frac{|ZC|}{|CC'|} = \frac{|ZB|}{|BB'|}$   
  $\frac{|ZA'|}{|AA'|} = \frac{|CC'|}{|ZC'|}$   
  $\frac{|A'B'|}{|AB|} = \frac{|ZB'|}{|ZB|}$   
 (Zwei richtig)

d) 

$\frac{|ZA|}{|CC'|} = \frac{|ZA'|}{|A'C'|}$   
  $\frac{|AA'|}{|CC'|} = \frac{|ZA|}{|ZC|}$   
  $\frac{|AC|}{|A'C'|} = \frac{|AB|}{|A'B'|}$   
 (Zwei richtig)

Viel Erfolg!