

Worksheet

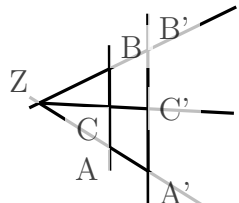
09/16/2020

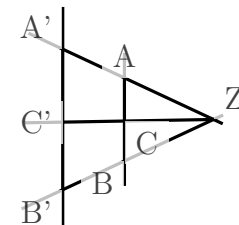
Free on dw-math.com

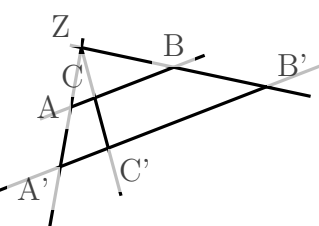
Problem quickname: 3140

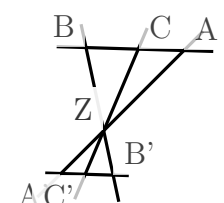
1)

Only one statement is true for each drawing. Which one?

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

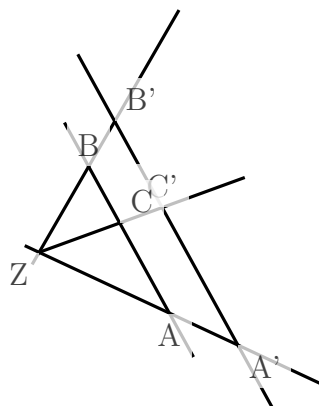
b)  $\square \frac{|AC|}{|A'C'|} = \frac{|ZA|}{|ZA'|}$
 $\square \frac{|AA'|}{|ZA'} = \frac{|ZC'|}{|CC'|}$

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

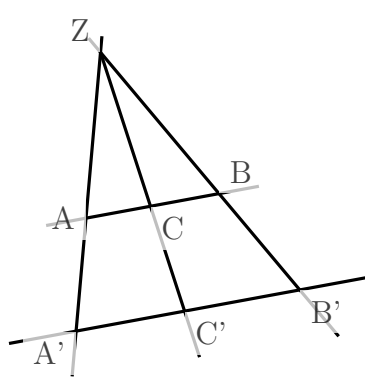
d)  $\square \frac{|B'C'|}{|BC|} = \frac{|A'C'|}{|AC|}$
 $\square \frac{|CC'|}{|ZC'|} = \frac{|ZB|}{|BB'|}$

2)

Which statements are true? Check them.

a)  $\square \frac{|B'C'|}{|BC|} = \frac{|ZB'|}{|ZB|}$
 $\square \frac{|ZC|}{|CC'|} = \frac{|ZB|}{|BB'|}$
 $\square \frac{|A'C'|}{|AC|} = \frac{|AB|}{|A'B'|}$
 (Two true)

b)



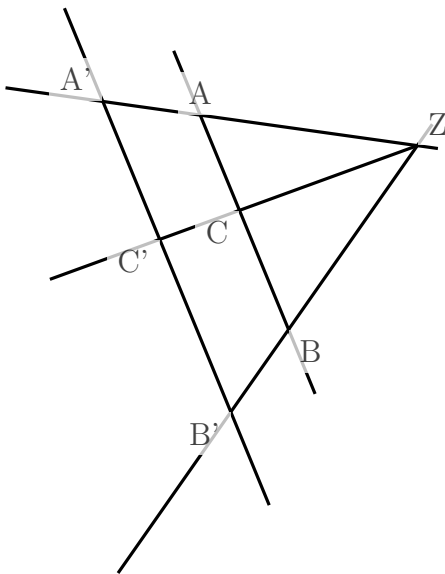
$$\square \frac{|ZB|}{|ZA|} = \frac{|ZB'|}{|ZA'|}$$

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

$$\square \frac{|A'C'|}{|AC|} = \frac{|ZC|}{|ZC'|}$$

(Two true)

c)



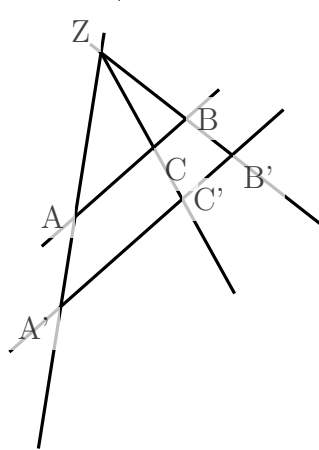
$$\square \frac{|A'C'|}{|AC|} = \frac{|ZC|}{|ZC'|}$$

$$\square \frac{|AC|}{|A'C'|} = \frac{|ZA|}{|ZA'|}$$

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

(Two true)

d)



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

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

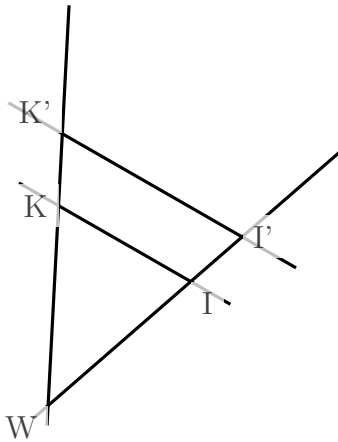
$$\square \frac{|AB|}{|A'B'|} = \frac{|ZA'|}{|ZA|}$$

(One true)

3)

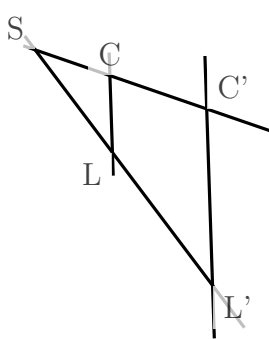
Which statements are true? Check them.

a)



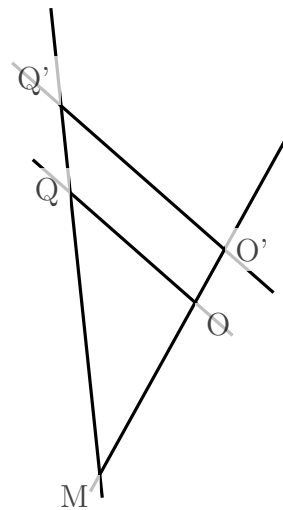
- $\frac{|WK|}{|WI|} = \frac{|WK'|}{|WI'|}$
 - $\frac{|WI|}{|WK|} = \frac{|WK'|}{|WI'|}$
 - $\frac{|KK'|}{|II'|} = \frac{|WK'|}{|WI'|}$
 - $\frac{|WI|}{|II'|} = \frac{|WK|}{|KK'|}$
- (Three true)

b)



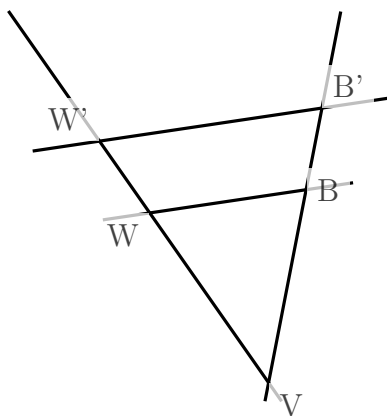
- $\frac{|SL|}{|CC'|} = \frac{|SL'|}{|L'C'|}$
 - $\frac{|LL'|}{|CC'|} = \frac{|SL'|}{|SC'|}$
 - $\frac{|SL'|}{|LL'|} = \frac{|SC'|}{|CC'|}$
 - $\frac{|LL'|}{|CC'|} = \frac{|SL|}{|SC|}$
- (Three true)

c)



- $\frac{|QQ'|}{|OO'|} = \frac{|MO'|}{|MQ'|}$
 - $\frac{|OO'|}{|QQ'|} = \frac{|MO'|}{|MQ'|}$
 - $\frac{|MO|}{|OO'|} = \frac{|MQ|}{|QQ'|}$
 - $\frac{|MO|}{|MO'|} = \frac{|MQ|}{|MQ'|}$
- (Two true)

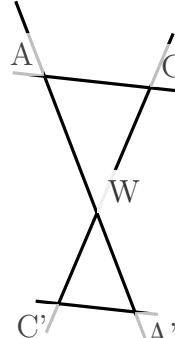
d)



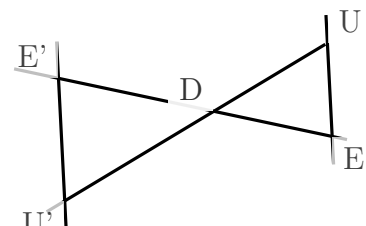
- $\frac{|VB|}{|VW|} = \frac{|VW'|}{|VB'|}$
 - $\frac{|VB'|}{|VB|} = \frac{|VW'|}{|VW|}$
 - $\frac{|WW'|}{|VB|} = \frac{|B'W'|}{|VB'|}$
 - $\frac{|BB'|}{|WW'|} = \frac{|VW'|}{|VB'|}$
- (One true)

4)

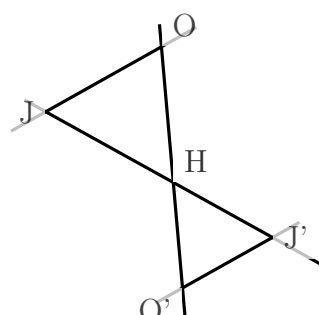
Which statements are true? Check them.

a) 

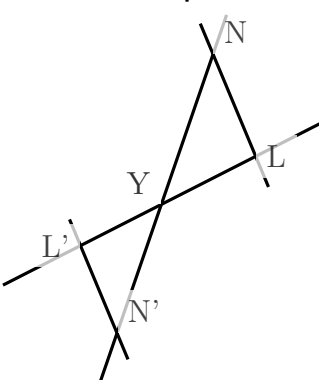
$\frac{|AA'|}{|CC'|} = \frac{|WA|}{|WC|}$
 $\frac{|AA'|}{|WC|} = \frac{|C'A'|}{|WC'|}$
 $\frac{|WC|}{|WC'|} = \frac{|WA|}{|WA'|}$
 $\frac{|WC'|}{|CC'|} = \frac{|AA'|}{|WA'|}$

b) 

$\frac{|UU'|}{|EE'|} = \frac{|DE|}{|DU|}$
 $\frac{|EE'|}{|UU'|} = \frac{|DU'|}{|DE'|}$
 $\frac{|DE'|}{|EE'|} = \frac{|UU'|}{|DU'|}$
 $\frac{|EE'|}{|DE'|} = \frac{|UU'|}{|DU'|}$

c) 

$\frac{|OO'|}{|HO'|} = \frac{|JJ'|}{|HJ'|}$
 $\frac{|HJ|}{|HO|} = \frac{|HO'|}{|HJ'|}$
 $\frac{|HJ|}{|HO|} = \frac{|HJ'|}{|HO'|}$
 $\frac{|OO'|}{|HO|} = \frac{|JJ'|}{|HJ|}$

d) 

$\frac{|NN'|}{|LL'|} = \frac{|YN'|}{|YL'|}$
 $\frac{|YL|}{|LL'|} = \frac{|YN|}{|NN'|}$
 $\frac{|LL'|}{|NN'|} = \frac{|YL|}{|YN|}$
 $\frac{|YL|}{|YL'|} = \frac{|YN'|}{|YN|}$

Good Luck!