

Worksheet

09/16/2020

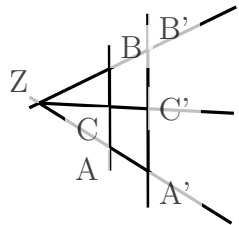
Free on dw-math.com

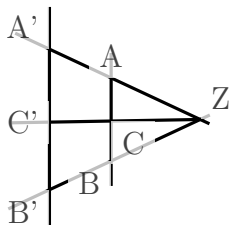
Problem quickname: 3140

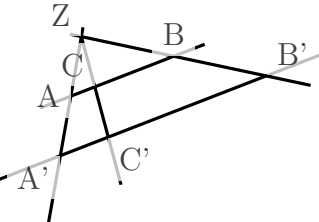
1)

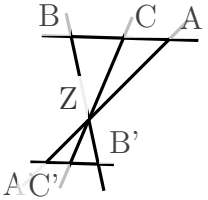
Only one statement is true for each drawing. Which one?

Quick:
3140

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

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

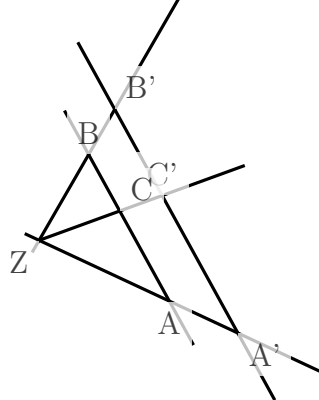
c)  $\times \frac{|CC'|}{|ZC'|} = \frac{|ZB|}{|BB'|}$
 $\times \frac{|AA'|}{|BB'|} = \frac{|ZA|}{|ZB|}$

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

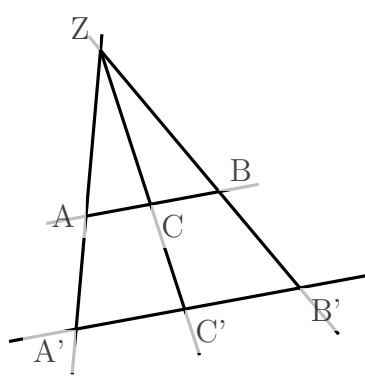
2)

Which statements are true? Check them.

Quick:
3140

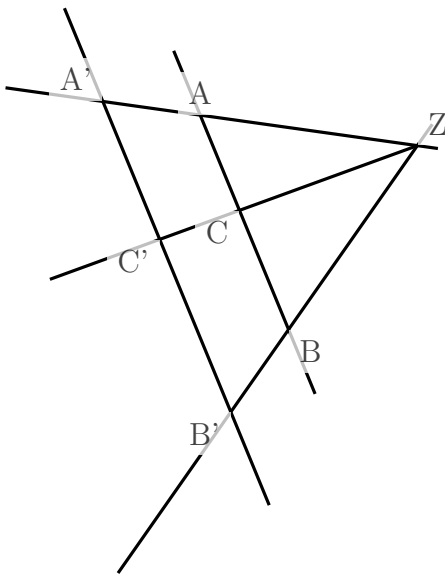
a)  $\sqrt{\frac{|B'C'|}{|BC|}} = \frac{|ZB'|}{|ZB|}$
 $\sqrt{\frac{|ZC|}{|CC'|}} = \frac{|ZB|}{|BB'|}$
 $\times \frac{|A'C'|}{|AC|} = \frac{|AB|}{|A'B'|}$

b)



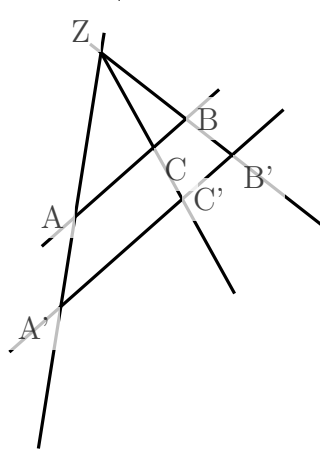
$$\begin{aligned} \sqrt{\frac{|ZB|}{|ZA|}} &= \frac{|ZB'|}{|ZA'|} \\ \sqrt{\frac{|ZC|}{|ZC'|}} &= \frac{|ZB|}{|ZB'|} \\ \times \frac{|A'C'|}{|AC|} &= \frac{|ZC|}{|ZC'|} \end{aligned}$$

c)



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

d)



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

3)

Which statements are true? Check them.

a)

$$\begin{aligned} \sqrt{\frac{|WK|}{|WI|}} &= \frac{|WK'|}{|WI'|} \\ \times \frac{|WI|}{|WK|} &= \frac{|WK'|}{|WI'|} \\ \sqrt{\frac{|KK'|}{|II'|}} &= \frac{|WK'|}{|WI'|} \\ \sqrt{\frac{|WI|}{|II'|}} &= \frac{|WK'|}{|KI'|} \end{aligned}$$

b)

$$\begin{aligned} \times \frac{|SL|}{|CC'|} &= \frac{|SL'|}{|L'C'|} \\ \sqrt{\frac{|LL'|}{|CC'|}} &= \frac{|SL'|}{|SC'|} \\ \sqrt{\frac{|SL'|}{|LL'|}} &= \frac{|SC'|}{|CC'|} \\ \sqrt{\frac{|LL'|}{|CC'|}} &= \frac{|SL|}{|SC|} \end{aligned}$$

c)

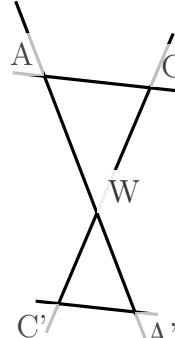
$$\begin{aligned} \times \frac{|QQ'|}{|OO'|} &= \frac{|MO'}{|MQ'|} \\ \sqrt{\frac{|OO'|}{|QQ'|}} &= \frac{|MO'}{|MQ'|} \\ \sqrt{\frac{|MO|}{|OO'|}} &= \frac{|MQ|}{|QQ'|} \\ \times \frac{|MO|}{|MO'|} &= \frac{|MQ'}{|MQ|} \end{aligned}$$

d)

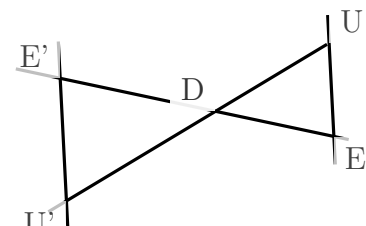
$$\begin{aligned} \times \frac{|VB|}{|VW|} &= \frac{|VW'}{|VB'|} \\ \sqrt{\frac{|VB'|}{|VB|}} &= \frac{|VW'}{|VW|} \\ \times \frac{|VW'}{|VB|}}{|VB'|} &= \frac{|B'W'}{|VB'|} \\ \times \frac{|BB'|}{|VW'} &= \frac{|VW'}{|VB'|} \end{aligned}$$

4)

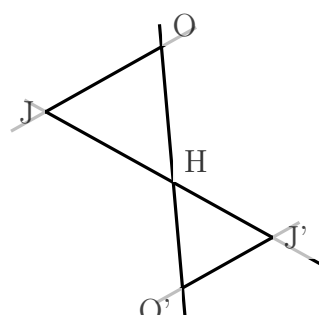
Which statements are true? Check them.

a) 

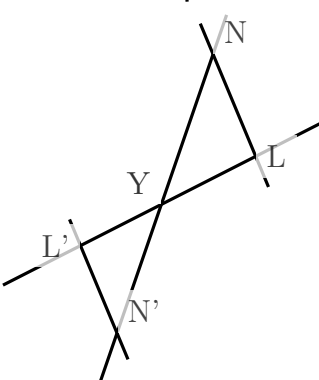
$$\begin{aligned} \sqrt{\frac{|AA'|}{|CC'|}} &= \frac{|WA|}{|WC|} \\ \times \frac{|AA'|}{|WC|} &= \frac{|C'A'|}{|WC'|} \\ \sqrt{\frac{|WC|}{|WC'|}} &= \frac{|WA|}{|WA'|} \\ \times \frac{|WC'|}{|CC'|} &= \frac{|AA'|}{|WA'|} \end{aligned}$$

b) 

$$\begin{aligned} \times \frac{|UU'|}{|EE'|} &= \frac{|DE|}{|DU|} \\ \times \frac{|EE'|}{|UU'|} &= \frac{|DU'|}{|DE'|} \\ \times \frac{|DE'|}{|EE'|} &= \frac{|UU'|}{|DU'|} \\ \sqrt{\frac{|EE'|}{|DE'|}} &= \frac{|UU'|}{|DU'|} \end{aligned}$$

c) 

$$\begin{aligned} \sqrt{\frac{|OO'|}{|HO'|}} &= \frac{|JJ'|}{|HJ'|} \\ \times \frac{|HJ|}{|HO|} &= \frac{|HO'|}{|HJ'|} \\ \sqrt{\frac{|HJ|}{|HO|}} &= \frac{|HJ'|}{|HO'|} \\ \sqrt{\frac{|OO'|}{|HO|}} &= \frac{|JJ'|}{|HJ|} \end{aligned}$$

d) 

$$\begin{aligned} \sqrt{\frac{|NN'|}{|LL'|}} &= \frac{|YN'|}{|YL'|} \\ \sqrt{\frac{|YL|}{|LL'|}} &= \frac{|YN|}{|NN'|} \\ \sqrt{\frac{|LL'|}{|NN'|}} &= \frac{|YL|}{|YN|} \\ \times \frac{|YL|}{|YL'|} &= \frac{|YN'|}{|YN|} \end{aligned}$$

Good Luck!