

Worksheet

09/16/2020

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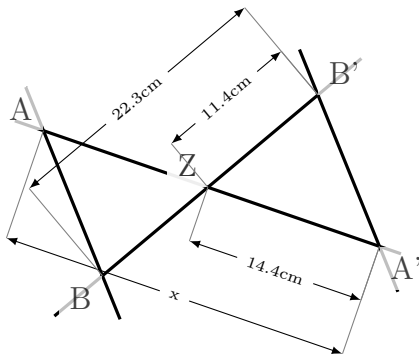
Problem quickname: 8979

1)

Specify the length of the line segment marked "x". Apply the intercept theorems.

Quick:
8979

a)



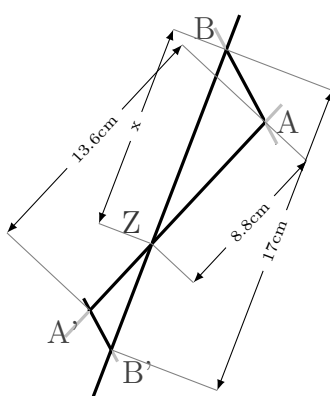
1. $\frac{|AA'|}{|BB'|} = \frac{|ZA'|}{|ZB'|}$

1a. $\frac{x}{22.3} = \frac{14.4}{11.4}$

2. $x = \frac{14.4 \cdot 22.3}{11.4}$

3. $x = 28.2$

b)



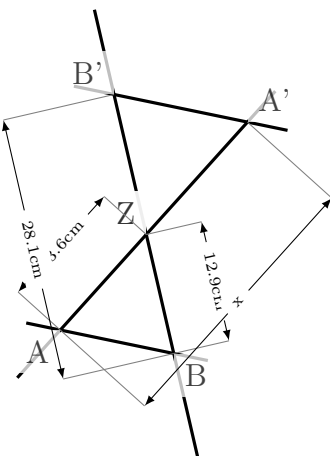
1. $\frac{|AA'|}{|BB'|} = \frac{|ZA|}{|ZB'|}$

1a. $\frac{13.6}{17} = \frac{8.8}{x}$

2. $x = \frac{17 \cdot 8.8}{13.6}$

3. $x = 11$

c)



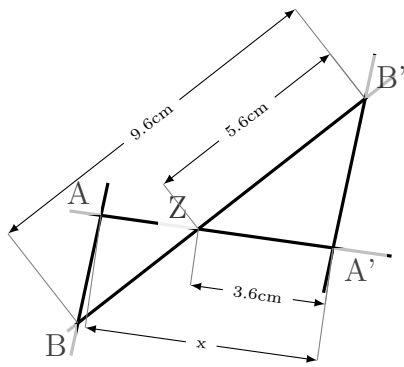
1. $\frac{|AA'|}{|BB'|} = \frac{|ZA|}{|ZB'|}$

1a. $\frac{x}{28.1} = \frac{12.9}{4.6}$

2. $x = \frac{12.9 \cdot 28.1}{4.6}$

3. $x = 29.6$

d)



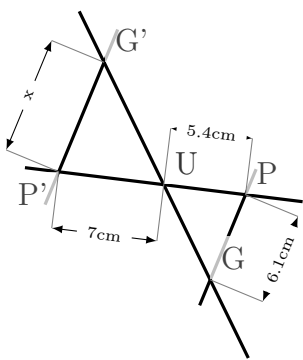
1. $\frac{|BB'|}{|AA'|} = \frac{|ZB'|}{|ZA'|}$
- 1a. $\frac{9.6}{x} = \frac{5.6}{3.6}$
2. $x = \frac{3.6 \cdot 9.6}{5.6}$
3. $x = 6.2$

2)

Specify the length of the line segment marked "x". Apply the intercept theorems.

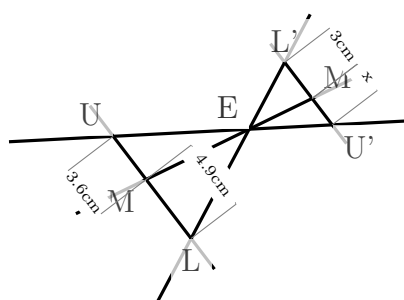
Quick:
8979

a)



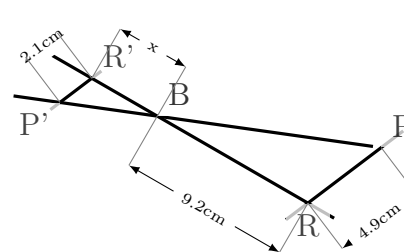
1. $\frac{|G'P'|}{|GP|} = \frac{|UP'|}{|UP|}$
- 1a. $\frac{x}{6.1} = \frac{7}{5.4}$
2. $x = \frac{7 \cdot 6.1}{5.4}$
3. $x = 7.8$

b)



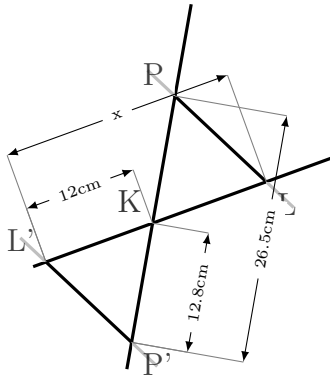
1. $\frac{|L'M'|}{|LM|} = \frac{|U'M'|}{|UM|}$
- 1a. $\frac{3}{4.9} = \frac{x}{3.6}$
2. $x = \frac{3 \cdot 3.6}{4.9}$
3. $x = 2.2$

c)



1. $\frac{|R'P'|}{|RP|} = \frac{|BR'|}{|BR|}$
- 1a. $\frac{2.1}{4.9} = \frac{x}{9.2}$
2. $x = \frac{2.1 \cdot 9.2}{4.9}$
3. $x = 4$

d)



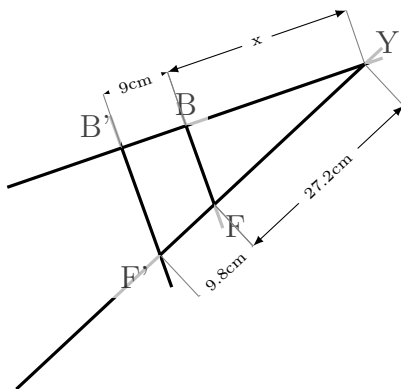
1. $\frac{|KL'|}{|LL'|} = \frac{|KP'|}{|PP'|}$
- 1a. $\frac{12}{x} = \frac{12.8}{26.5}$
2. $x = \frac{26.5 \cdot 12}{12.8}$
3. $x = 24.8$

3)

Specify the length of the line segment marked "x". Apply the intercept theorems.

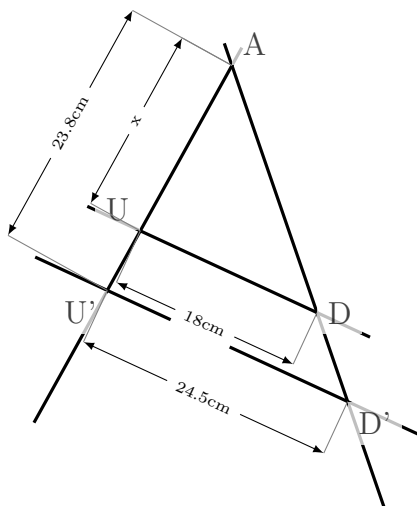
Quick:
8979

a)



1. $\frac{|YB|}{|BB'|} = \frac{|YF|}{|FF'|}$
- 1a. $\frac{x}{9} = \frac{27.2}{9.8}$
2. $x = \frac{27.2 \cdot 9}{9.8}$
3. $x = 25$

b)



1. $\frac{|U'D'|}{|UD|} = \frac{|AU'|}{|AU|}$
- 1a. $\frac{24.5}{18} = \frac{23.8}{x}$
2. $x = \frac{18 \cdot 23.8}{24.5}$
3. $x = 17.5$

c)

1. $\frac{|WV'|}{|VV'|} = \frac{|WB'|}{|BB'|}$
- 1a. $\frac{x}{28.7} = \frac{17.5}{31.2}$
2. $x = \frac{17.5 \cdot 28.7}{31.2}$
3. $x = 16.1$

d)

1. $\frac{|NS|}{|WS|} = \frac{|N'S'|}{|W'S'|}$
- 1a. $\frac{2.7}{4} = \frac{x}{3.2}$
2. $x = \frac{2.7 \cdot 3.2}{4}$
3. $x = 2.2$

4)
Specify the length of the line segment marked "x". Apply the intercept theorems.

Quick:
8979

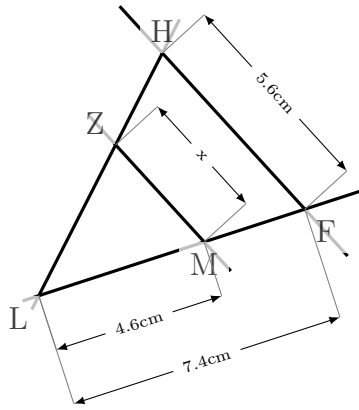
a)

1. $\frac{|SF|}{|EK|} = \frac{|JF|}{|JK|}$
- 1a. $\frac{9.7}{x} = \frac{8}{4.3}$
2. $x = \frac{4.3 \cdot 9.7}{8}$
3. $x = 5.2$

b)

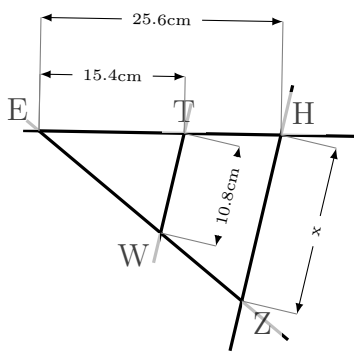
1. $\frac{|WN|}{|IS|} = \frac{|RN|}{|RS|}$
- 1a. $\frac{11}{x} = \frac{10.2}{6.9}$
2. $x = \frac{6.9 \cdot 11}{10.2}$
3. $x = 7.4$

c)



1. $\frac{|FH|}{|MZ|} = \frac{|LF|}{|LM|}$
- 1a. $\frac{5.6}{x} = \frac{7.4}{4.6}$
2. $x = \frac{4.6 \cdot 5.6}{7.4}$
3. $x = 3.5$

d)



1. $\frac{|ZH|}{|WT|} = \frac{|EH|}{|ET|}$
- 1a. $\frac{x}{10.8} = \frac{25.6}{15.4}$
2. $x = \frac{25.6 \cdot 10.8}{15.4}$
3. $x = 18$

Good Luck!