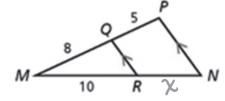
7.4 Day 2 Homework Pg. 498 # 2-6 Evens, 7, 12, 25, 32, 34 Pg. 519 # 1-3

Find the length of each segment.

Verify that the given segments are parallel.



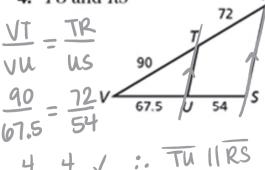


$$8x = 50$$

$$x = 25$$

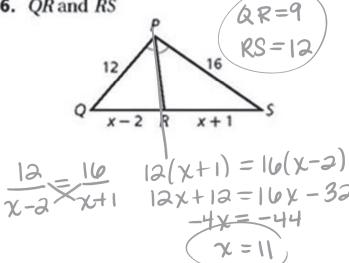
$$RN = \frac{25}{4}$$

4. \overline{TU} and \overline{RS}

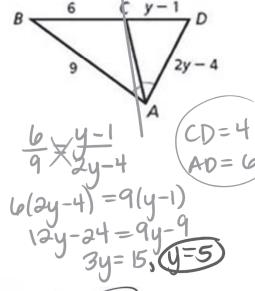


Find the length of each segment.

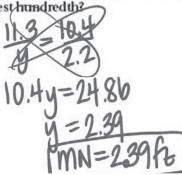
6. \overline{QR} and \overline{RS}

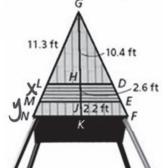


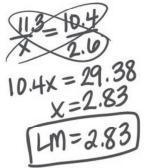
7. \overline{CD} and \overline{AD}



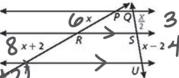
12. Architecture The wooden treehouse has horizontal siding that is parallel to the base. What are LM and MN to the nearest/hundredth2

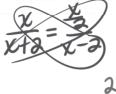






- 25. Given that $\overrightarrow{PQ} \parallel \overrightarrow{RS} \parallel \overrightarrow{TU}$
 - a. Find PR, RT, QS, and SU.
 - b. Use your results from part b to write a proportion relating the segment lengths.





$$\chi^{2}-2x = \frac{\chi^{2}}{3} + \chi$$

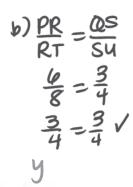
$$\chi(\chi^{2}-3x) = \frac{\chi^{2}}{3}$$

$$\chi(\chi^{2}-4x) = \frac{\chi^{2}}{3}$$

$$\chi(\chi^{2}-4x) = \frac{\chi^{2}}{3}$$

$$X(x-6)=0$$

 $X=0 \times = 6$
a) PR=6
RT=8
QS=3
8U=4

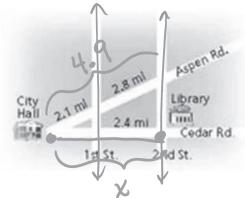


32. Which dimensions let you conclude that $\overline{UV} \parallel \overline{ST}$?

$$SR = 12$$
, $TR = 9 | 2 : 9 = 4 : 3$ C $SR = 35$, $TR = 28 35 : 9$ $SR = 16$, $TR = 20 | 9 : 20 = 4 : 9$ $SR = 50$, $TR = 48$

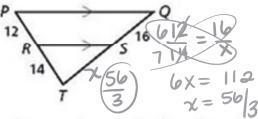
- 5.285 5.4 T $R \frac{2D}{10} = \frac{1}{2}$
- 34. On the map, 1st St. and 2nd St. are parallel. What is the distance from City Hall to 2nd St. along Cedar Rd.?
- (A) 1.8 mi
- **c** 4.2 mi
- B 3.2 mi
- D 5.6 mi





Find the length of each segment.

1. ST



2. \overline{AB} and \overline{AC} 4y-1 6 32y-8=30y y=4/E G3.6 cm H2.4 cm

 An artist drew a picture of railroad tracks such that the ties \(\overline{EF}\), \(\overline{GH}\), and \(\overline{JK}\) are parallel. What is the length of \(\overline{FH}\)?

$$\frac{3.6}{2.4} = \frac{2}{3}$$