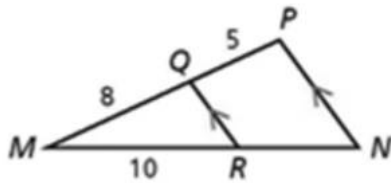# 7.4 Day 2 Homework
Pg. 498 # 2-6 Evens, 7, 12, 25, 32, 34
Pg. 519 # 1-3
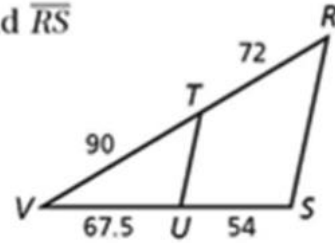
Find the length of each segment.

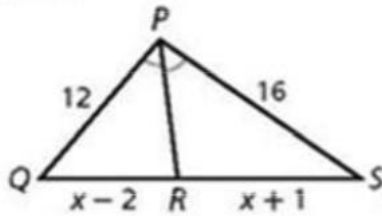**2.** $\overline{RN}$

Verify that the given segments are parallel.
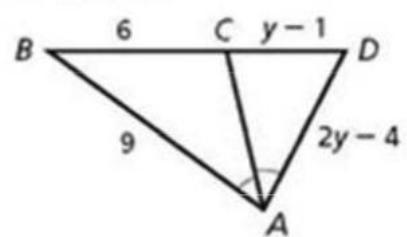
4. $\overline{TU}$ and $\overline{RS}$

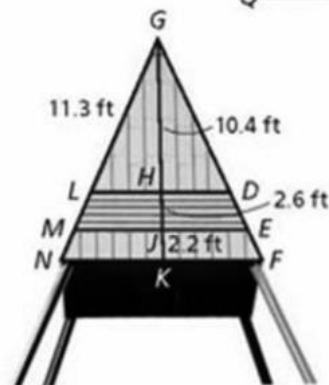## Find the length of each segment.

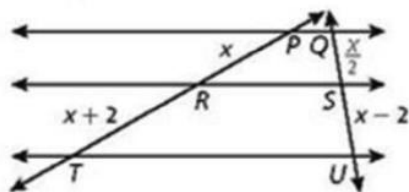**6.** $\overline{QR}$ and $\overline{RS}$

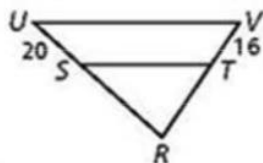**7.** $\overline{CD}$ and $\overline{AD}$

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

25. Given that $\overleftrightarrow{PQ} \parallel \overleftrightarrow{RS} \parallel \overleftrightarrow{TU}$

   a. Find PR, RT, QS, and SU.

   b. Use your results from part **b** to write a proportion relating the segment lengths.

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

   (A) $SR = 12$, $TR = 9$ **(C)** $SR = 35$, $TR = 28$

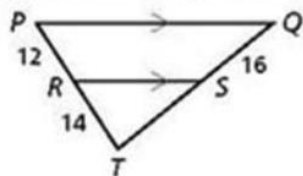   **(B)** $SR = 16$, $TR = 20$ **(D)** $SR = 50$, $TR = 48$

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
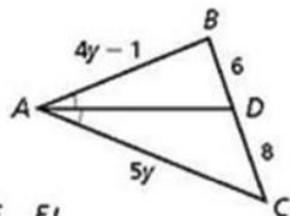
   (B) 3.2 mi   **(D)** 5.6 mi

Find the length of each segment.

   1. $\overline{ST}$

   2. $\overline{AB}$ and $\overline{AC}$

   3. 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 $\overline{FH}$?