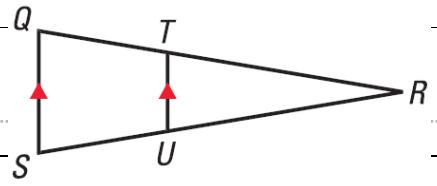
Geometry

8.4 Proportionality Theorems

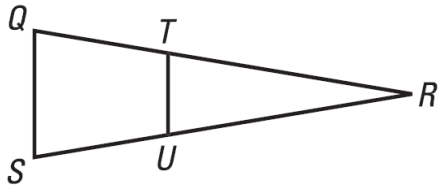


Triangle Proportionality Theorem

If a line is _____ to a _____ of a _____, then it separates the other two _____ into _____ segments.

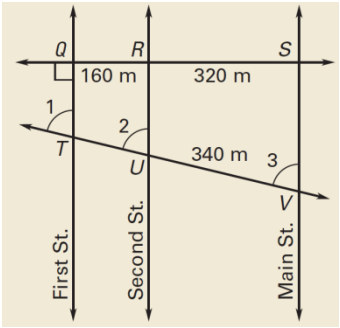
- And the _____ is also true. _____ segments → line _____ to the third side.

In ΔRSQ with chord TU, $QR = 10$, $QT = 2$, $UR = 6$, and $SR = 12$. Determine if $\overline{QS} \parallel \overline{TU}$.



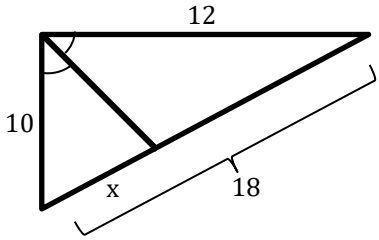
If three or more _____ lines intersect two _____, then they cut off the transversals _____.

Using the information in the diagram, find the distance TV.



An _____ _____ in a triangle separates the _____ side into segments that have the same _____ as the other two sides.

Find x



Assignment: 434 #2, 4, 6, 12, 14, 16, 18, 20, 21, 22, 23, 24, 27, 28, 36, 40, 41, 44, 45, 46 = 20 total