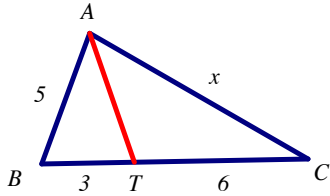


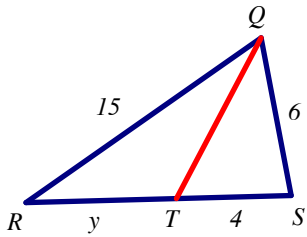
Ray bisects an angle

If a ray bisects an angle of a triangle, it divides the opposite side into segments whose lengths are proportional to the lengths of the other two sides.

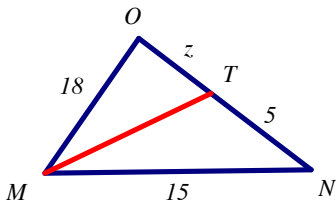
1. \overline{AT} bisects $\angle A$, find AC.



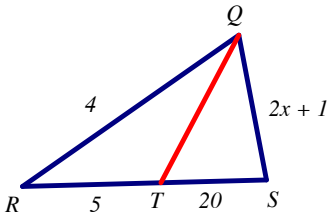
2. \overline{QT} bisects $\angle Q$, find RT



3. \overline{MT} bisects $\angle M$, find TO



4. \overline{QT} bisects $\angle Q$, find the value of x and QS.



5. \overline{AT} bisects $\angle A$, find the value of x, AB and AC.

