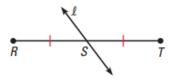
Write an explanation to answer the question.

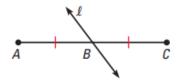
1.) Explain what it means to bisect a segment. Why is in impossible to bisect a line?

In exercises 2-7, find the indicated length

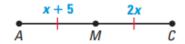
2.) Find RT if $RS = 5\frac{1}{8}$ in.



3.) Find BC if AC = 19 cm.



4.) Find AM.



5.) Find *XZ*.

6.) Find *PR*.



7.) Find *JM*.

In 8, draw and label a diagram, then find the indicated length. $\,$

8.) Line RS bisects segment PQ at point R. Find RQ if PQ = 4.5 inches.

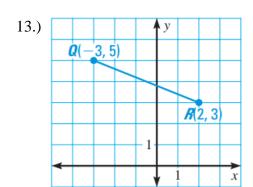
Find the coordinates of the midpoint of the segment with the given endpoints.

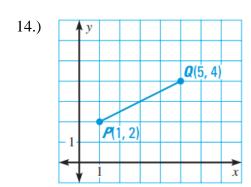
9.)
$$C(3, 5)$$
 and $D(7, 5)$

In exercises 11-12, use the given endpoint R and the <u>midpoint</u> M of \overline{RS} to find the coordinates of the other endpoint S.

11.)
$$R(3, 0), M(0, 5)$$

Find the length of the segment using the distance formula.





In 15, draw and label a diagram before finding the indicated segment. $\,$

15.) Point *M* is the midpoint of \overline{JK} , $JM = \frac{x}{8}$, and $JK = \frac{3x}{4} - 6$. Find *MK*.