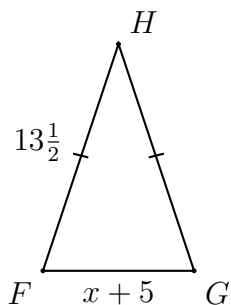


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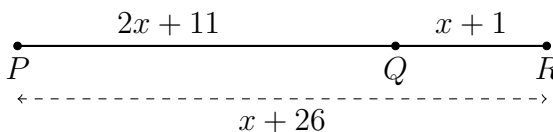
1.5 Homework: Segments, equilateral and isosceles triangles, perimeter

- The perimeter of the isosceles $\triangle FGH$ is 35 with $\overline{FH} \cong \overline{GH}$. If $FG = x + 5$ and $FH = 13\frac{1}{2}$, find x .

Show your work with an equation for full credit.



- Given \overline{PQR} , $PQ = 2x + 11$, $QR = x + 1$, $PR = x + 26$. Find x .

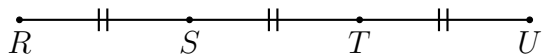


(a) Write down an equation to represent the situation.

(b) Solve for x .

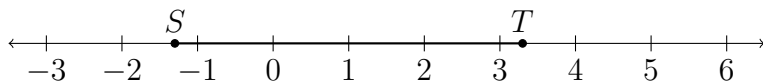
(c) Check your answer.

- Given the points S and T trisect the line segment \overline{RU} , as shown below. If $RT = 7$, find RU .



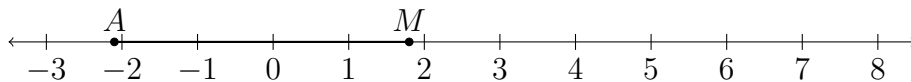
4. Given $S(-1.3)$ and $T(3.3)$, as shown on the number line.

Mark and label the midpoint M that bisects \overline{ST} .



5. Given $A(-2.1)$ and $M(1.8)$, as shown on the number line. The point B is such that M bisects \overline{AB} .

Find the value of B . Mark and label it on the number line.



6. The point Q lies on \overline{AB} three quarters of the way from A to B . Given $AB = 28$.

- Mark and label the approximate location of Q .
- Find AQ . State an equation for full credit.

