

Practice 2-4

Use the given property to complete each statement.

- Symmetric Property of Equality
If $MN = UT$, then _____.
- Addition Property of Equality
If $y - 15 = 36$, then _____.
- Reflexive Property of Congruence
 $\overline{JL} \cong$ _____.

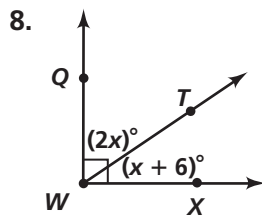
Give a reason for each step.

- $0.25x + 2x + 12 = 39$
 $2.25x + 12 = 39$ _____
 $2.25x = 27$ _____
 $225x = 2700$ _____
 $x = 12$ _____

Name the property that justifies each statement.

- If $m\angle G = 35$ and $m\angle S = 35$, then $m\angle G = m\angle S$. _____
- If $10x + 6y = 14$ and $x = 2y$, then $10(2y) + 6y = 14$. _____
- If $\overline{JK} \cong \overline{LM}$, then $\overline{LM} \cong \overline{JK}$. _____

Fill in the missing information. Solve for x , and justify each step.



$$m\angle QWT + m\angle TWX = 90$$

$$2x + (x + 6) = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + 6 = 90$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}}$$

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