

Name: _____

Name the property that each statement illustrates.

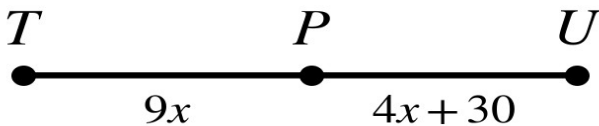
1. If $JK = LM$ and $LM = 8$, then $JK = 8$.
2. $\angle W \cong \angle W$
3. If $m\angle 3 = m\angle 4$, then $m\angle 4 = m\angle 3$.
4. If $2x - 6 = 14$, then $2x = 20$.

Complete each statement.

5. Transitive Prop. of $\cong$: If segment $AB \cong$ segment CD and segment $CD \cong$ segment EF , then _____.
6. Substitution: If $x = 5$ and $AB = x + 12$, then $AB =$ _____.
7. If $m\angle 1 = m\angle 2$ and $m\angle 2 = 40^\circ$, then $m\angle 1 =$ _____ by the _____ Property.

Complete the two-column proof.

8. Given: P is the midpoint of segment TU . Prove: $x = 6$.



Statements	Reasons
1. P is the midpoint of segment TU	1. Given
2.	2.
3.	3.
4.	4.
5.	5.