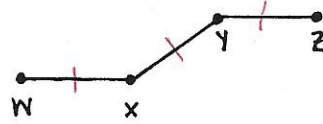


NAME: _____

10. Given: $\overline{WX} \cong \overline{XY}$ and $\overline{XY} \cong \overline{YZ}$

Prove: $\overline{XW} \cong \overline{YZ}$



1. $\overline{WX} \cong \overline{XY}$, $\overline{XY} \cong \overline{YZ}$

1. Given

2. $WX = XY$, $XY = YZ$

2. def. of $\cong$ segments

3. $WX = YZ$

3. Transitive / substitution

4. $\overline{WX} \cong \overline{YZ}$

4. def. of $\cong$ segments