

Name:

Hour:

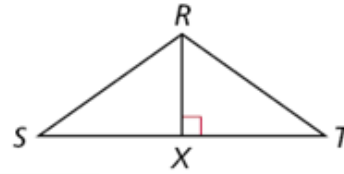
Date:

Advanced Geometry Practice – Proofs Involving Congruent Triangles and CPCTC

1.

Given: X is the midpoint of \overline{ST} . $\overline{RX} \perp \overline{ST}$

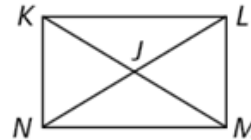
Prove: $\overline{RS} \cong \overline{RT}$



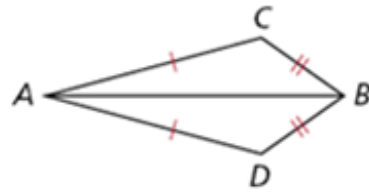
2.

Given: J is the midpoint of \overline{KM} and \overline{NL} .

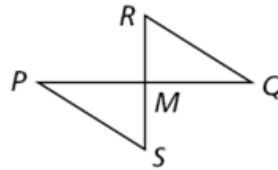
Prove: $\overline{KL} \parallel \overline{MN}$



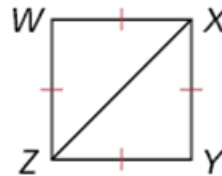
3. **Given:** $\overline{AC} \cong \overline{AD}$, $\overline{CB} \cong \overline{DB}$
Prove: \overline{AB} bisects $\angle CAD$.



4. **Given:** M is the midpoint of \overline{PQ} and \overline{RS} .
Prove: $\overline{QR} \cong \overline{PS}$

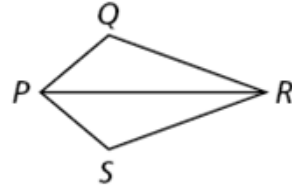


5. **Given:** $\overline{WX} \cong \overline{XY} \cong \overline{YZ} \cong \overline{ZW}$
Prove: $\angle W \cong \angle Y$



6.

Given: \overline{PR} bisects $\angle QPS$ and $\angle QRS$.
Prove: $\overline{PQ} \cong \overline{PS}$



7.

Given: $\overline{EG} \parallel \overline{DF}$, $\overline{EG} \cong \overline{DF}$
Prove: $\overline{ED} \parallel \overline{GF}$

