

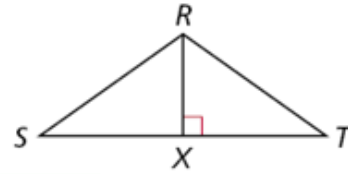
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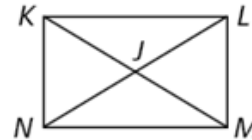
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## Geometry Practice – Proofs Involving Congruent Triangles and CPCTC

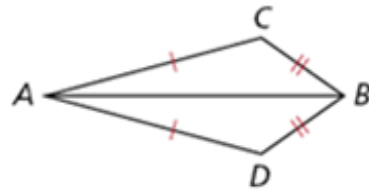
1. **Given:**  $X$  is the midpoint of  $\overline{ST}$ .  $\overline{RX} \perp \overline{ST}$   
**Prove:**  $\overline{RS} \cong \overline{RT}$



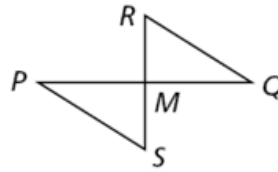
2. **Given:**  $J$  is the midpoint of  $\overline{KM}$  and  $\overline{NL}$ .  
**Prove:**  $\overline{KL} \parallel \overline{MN}$



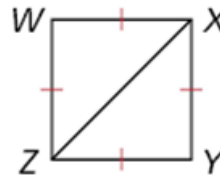
3. **Given:**  $\overline{AC} \cong \overline{AD}$ ,  $\overline{CB} \cong \overline{DB}$   
**Prove:**  $\overline{AB}$  bisects  $\angle CAD$ .



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



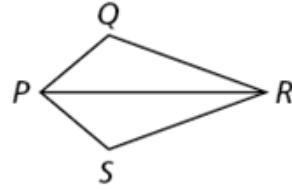
5. **Given:**  $\overline{WX} \cong \overline{XY} \cong \overline{YZ} \cong \overline{ZW}$   
**Prove:**  $\angle W \cong \angle Y$



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:  $\overline{ED} \parallel \overline{GF}$

