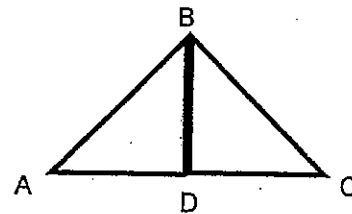## CPCTC Proofs

Use one of the congruence theorems we have studied (SSS, SAS, ASA, AAS, HL) to prove that the triangles are congruent. Then use CPCTC to help draw further conclusions.

1. Given: $<ADB \cong <CDB$ and $\overline{AD} \cong \overline{CD}$

   Prove: $<A \cong <C$

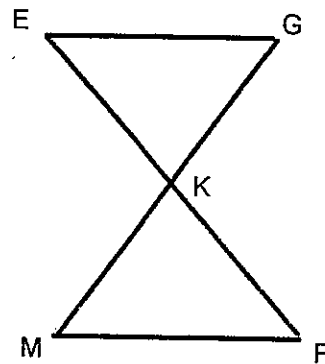| Statements	Reasons

2. Given: $<E \cong <P$ and K is the midpoint of EP

   Prove: $\overline{EG} \cong \overline{MP}$

Statements	Reasons

3. Given: < R ≅ < Q and $\overline{RT}$ ≅ $\overline{WQ}$

    Prove: $\overline{RW}$ ≅ $\overline{TQ}$
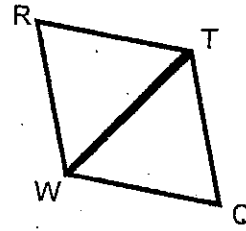
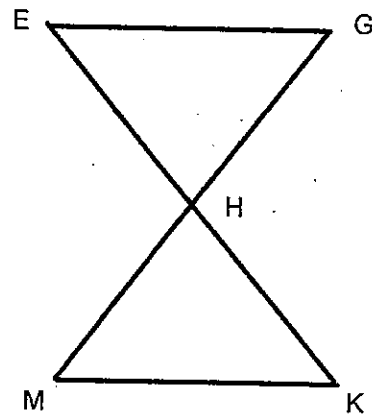 | Statements | Reasons |
    | --- | --- |
    | | |

4. Given: H is the m idpoint of $\overline{GM}$ and H is the midpoint of $\overline{EK}$

    Prove: $\overline{EG}$ ≅ $\overline{MK}$

Statements	Reasons