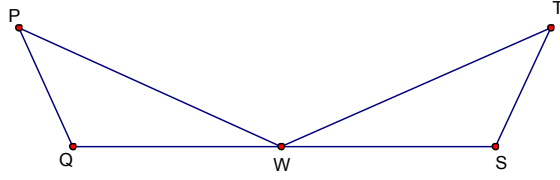


### 4-5 & 4-6: Triangle Congruence Proofs

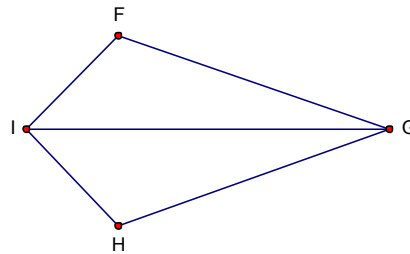
EX 1) **Given:**  $\overline{PW} \cong \overline{TW}$ ,  $\overline{PQ} \cong \overline{TS}$ ,  
 $W$  is the midpoint of  $\overline{QS}$

**Prove:**  $\triangle PQW \cong \triangle TSW$



Statement	Reason

EX 2) **Given:**  $\overline{GI}$  bisects  $\angle FGH$  and  $\angle FIH$   
**Prove:**  $\triangle GIF \cong \triangle GIH$

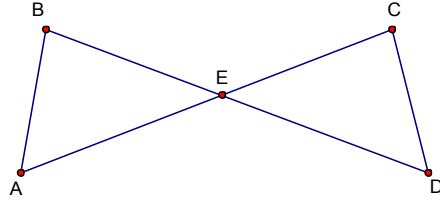


Statement	Reason

### 4-5 & 4-6: Triangle Congruence Proofs

EX 3) **Given:**  $\overline{AE} \cong \overline{DE}$ ,  $\overline{BE} \cong \overline{CE}$

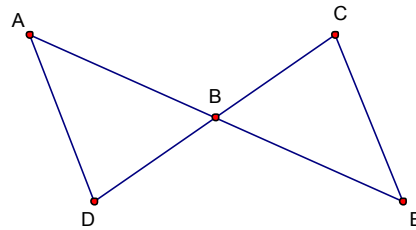
**Prove:**  $\triangle AEB \cong \triangle DEC$



Statement	Reason

EX 4) **Given:**  $\overline{AD} \parallel \overline{CE}$ ,  
 $B$  is the midpoint of  $\overline{DC}$

**Prove:**  $\triangle ABD \cong \triangle ECB$

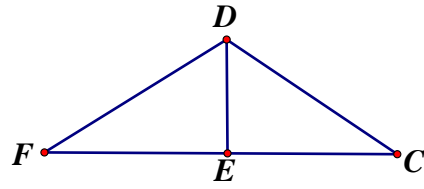


Statement	Reason

### 4-5 & 4-6: Triangle Congruence Proofs

EX 5) **Given:**  $\overline{DE}$  is a  $\perp$  bisector of  $\overline{FC}$ ,  
 $\overline{DF} \cong \overline{DC}$

**Prove:**  $\triangle DEF \cong \triangle DEC$



Statement

Reason