

Key

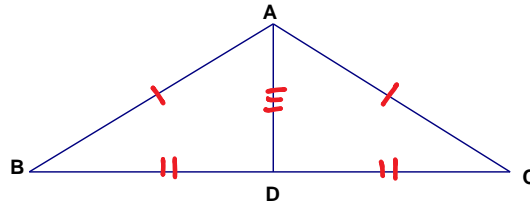
# TRIANGLE PROOFS – NOTES

Mark each diagram based on the given information and fill in the mini - proof:

1. **Given:**  
 $\overline{AC} \cong \overline{AB}$   
 $\overline{AD}$  bisects  $\overline{BC}$

**Prove:**

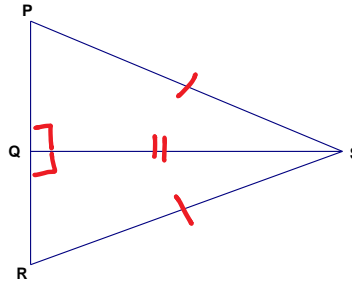
$\triangle ADB \cong \triangle \underline{ADC}$  by  $\underline{SSS}$



2. **Given:**  
 $\overline{SQ} \perp \overline{PR}$   
 $\overline{PS} \cong \overline{SR}$

**Prove:**

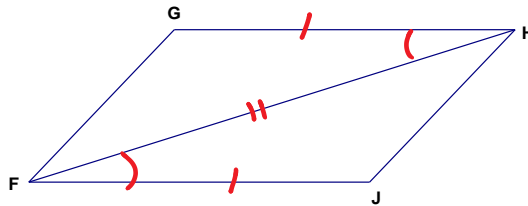
$\triangle PSQ \cong \triangle \underline{RSQ}$  by  $\underline{HL}$



3. **Given:**  
 $\overline{GH} \cong \overline{FJ}$   
 $\angle GHF \cong \angle JFH$

**Prove:**

$\triangle FGH \cong \triangle \underline{HJF}$  by  $\underline{SAS}$



4. **Given:**  
V is the midpoint of  $\overline{SQ}$   
V is the midpoint of  $\overline{RT}$

**Prove:**

$\triangle SVR \cong \triangle \underline{QVT}$  by  $\underline{SAS}$

