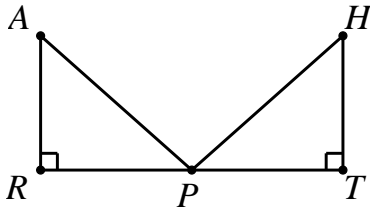


Use HL to complete the proofs (2-column, flow, or paragraph).

1. Given: $\angle R$ & $\angle T$ are right

$$\overline{AP} \cong \overline{HP}$$
$$\overline{AR} \cong \overline{HT}$$

Prove: \overline{AP} bisects \overline{RT}

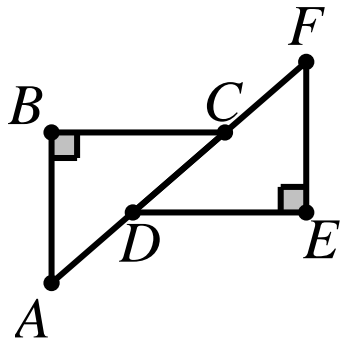


2a. Given: $\overline{AD} \cong \overline{FC}$

$$\overline{DE} \cong \overline{CB}$$

$\angle B$ & $\angle E$ are right angles

Prove: $\triangle ABC \cong \triangle FED$



2b. Add the necessary steps to your proof to prove: $\overline{BA} \parallel \overline{EF}$

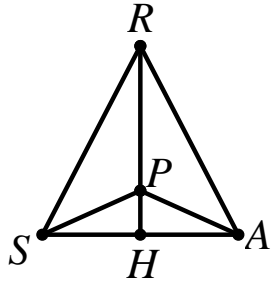
Complete the proofs (2-column, flow, or paragraph).

3a. Given: $\angle RSH \cong \angle RAH$

$$\overline{SP} \cong \overline{AP}$$

Prove: $\angle SRH \cong \angle ARH$

Hint: Only 1 pair of congruent triangles is needed

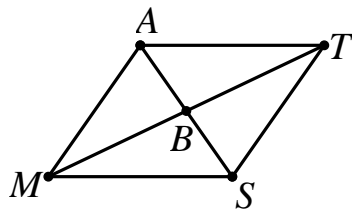


3b. Is it now possible to conclude \overline{HPR} bisects $\angle SRA$? Justify your reasoning.

4a. Given: $\overline{AT} \cong \overline{TS}$

$$\overline{AM} \cong \overline{SM}$$

Prove: $\triangle ATB \cong \triangle STB$



4b. Add the necessary steps your proof to prove: $\overline{TB} \perp \overline{AS}$