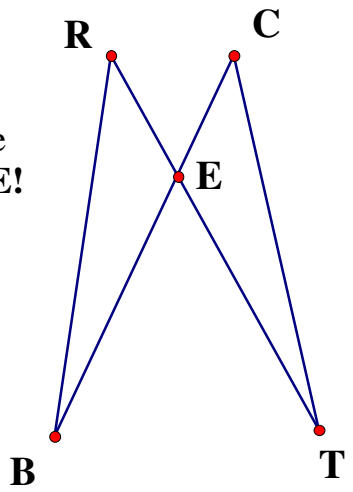
Sample Quiz on 5.5-5.6



1) Provide a short argument that demonstrates whether or not the segments or angles indicated are congruent. Clearly indicate which triangles are congruent and why. **MARK THE FIGURE!**

RE = CE; $\angle R \cong \angle C$.

Is BE = TE? Why?

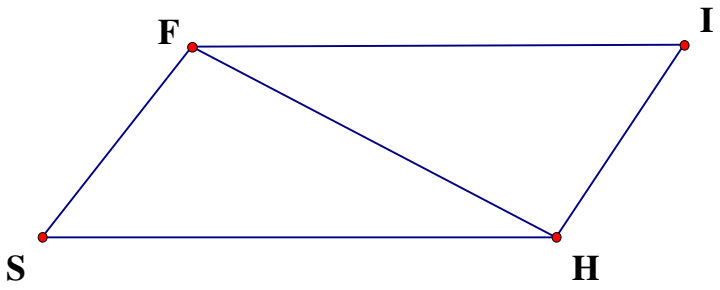
2) What does "CPCTC" stand for? Explain.

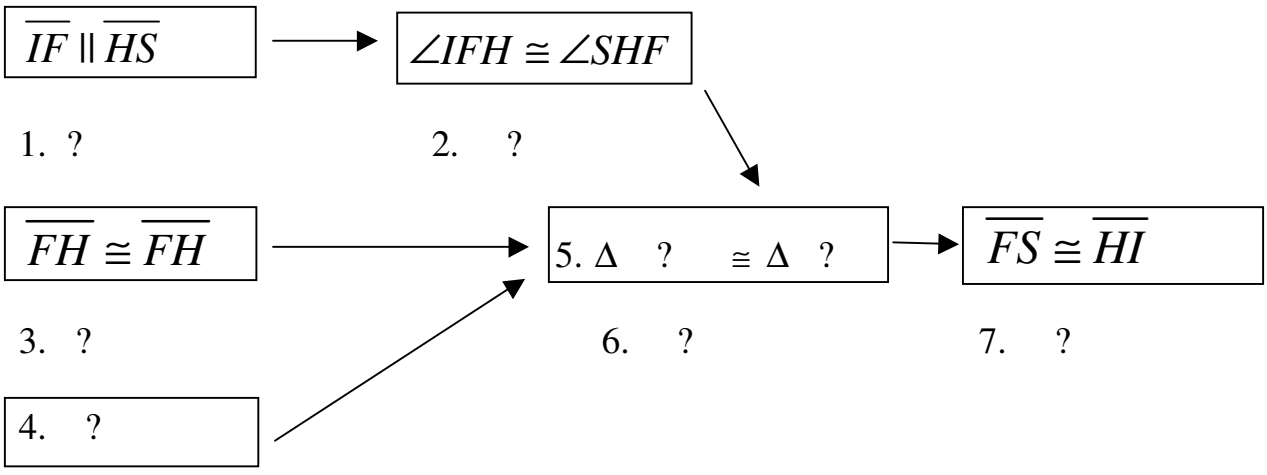
3) Copy the flowchart. Provide each missing reason or statement in the proof.

Given: $\overline{IF} \parallel \overline{HS}$

IF = HS

Prove: $\overline{FS} \cong \overline{HI}$





Answers are given below:

Answers:

1) $\angle REB \cong \angle CET$ by the vertical angles conjecture, so $\Delta BRE \cong \Delta TCE$ by ASA and BE = TE by CPCTC.

2) CPCTC is an abbreviation for "Corresponding Parts of Congruent Triangles are Congruent". This comes from the definition of congruent triangles which are triangles that have all three angles and all three sides congruent to each other.

3) 1. Given 2. AIA conjecture 3. Same segment
4. IF = HS 5. Δ SHF $\cong$ Δ IFH 6. SAS 7. CPCTC