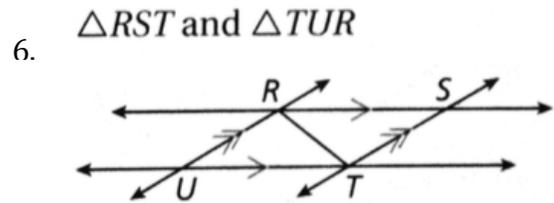
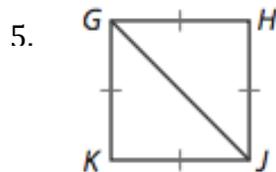
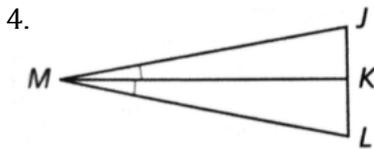
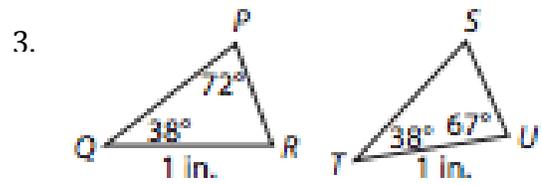
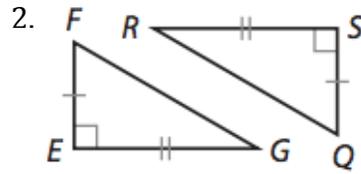
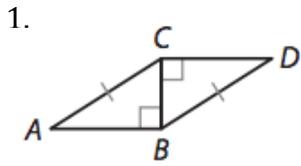
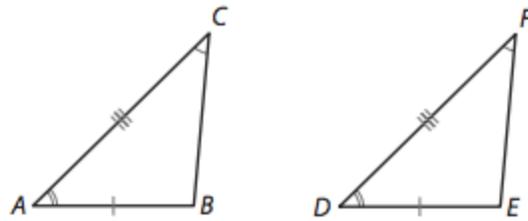


Are the two triangles congruent? Explain how you know.



7. Which of the following are reasons that justify why the triangles are congruent? Select all that apply.

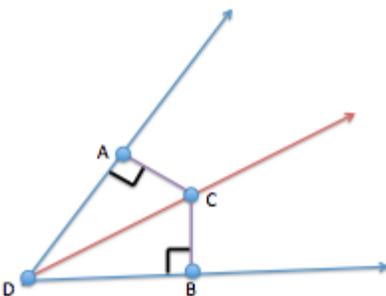
- A. SSA Triangle Congruence Theorem
- B. SAS Triangle Congruence Theorem
- C. ASA Triangle Congruence Theorem



8. What does CPCTC stand for? What do we use it for in proofs?

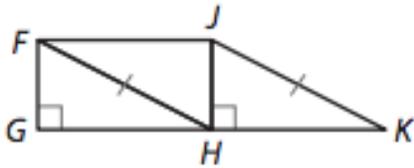
9. Given:  $\overline{DC}$  bisects  $\angle ADB$   
 Prove:  $\overline{AC} \cong \overline{BC}$

Write a paragraph proof.



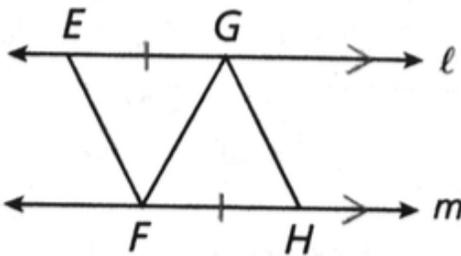
Write a two column proof.

10. Given:  $\angle FGH$  and  $\angle JHK$  are right angles.  
 $H$  is the midpoint of  $\overline{GK}$ .  $\overline{FH} \cong \overline{JK}$   
 Prove:  $\triangle FGH \cong \triangle JHK$



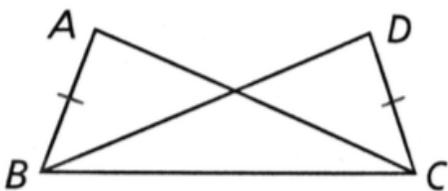
Write a flow chart proof.

11. Given:  $\ell \parallel m$ ,  $\overline{EG} \cong \overline{HF}$   
 Prove:  $\triangle EGF \cong \triangle HFG$



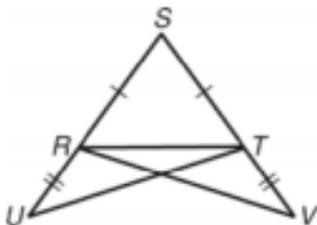
Write a two column proof.

12. Given:  $\overline{AB} \cong \overline{DC}$ ,  $\angle ABC \cong \angle DCB$   
 Prove:  $\angle A \cong \angle D$



Challenge!

- Given:  $\overline{RU} \cong \overline{TV}$ ,  $\overline{RS} \cong \overline{TS}$



- Prove:  $\overline{RV} \cong \overline{TU}$

Write a paragraph proof.