

# CPCTC: Corresponding Parts of Congruent Triangles are Congruent.

Name \_\_\_\_\_

Date \_\_\_\_\_

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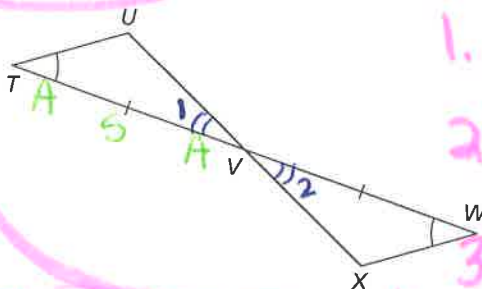
## 5.7 Notetaking with Vocabulary (continued)

### Extra Practice

In Exercises 1-3, explain how to prove that the statement is true.

1.  $\overline{UV} \cong \overline{XV}$

Side Parts



1.  $\angle T \cong \angle W$   
 $\overline{TV} \cong \overline{WV}$

2.  $\angle 1 \cong \angle 2$

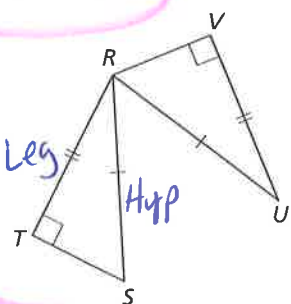
3.  $\triangle TUV \cong \triangle WXV$

4.  $\overline{UV} \cong \overline{XV}$

- 1. Given
- 2. Vertical
- 3. ~~ASA~~ ASA
- 4. CPCTC

2.  $\overline{TS} \cong \overline{VR}$

Side Parts



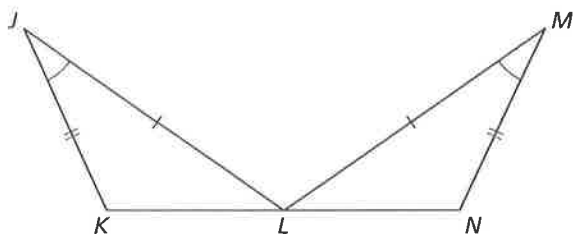
1.  $\angle T$  &  $\angle V$  are  $90^\circ$   
 $\overline{RT} \cong \overline{RV}$ ,  $\overline{RS} \cong \overline{RU}$

2.  $\triangle TSR \cong \triangle VRU$

3.  $\overline{TS} \cong \overline{VR}$

- 1. Given
- 2. HL
- 3. CPCTC

3.  $\angle JLK \cong \angle MLN$



In Exercises 4 and 5, write a plan to prove that  $\angle 1 \cong \angle 2$ .

