

# 4-4

## Practice

Form K

### Using Corresponding Parts of Congruent Triangles

1. **Developing Proof** State why the two triangles are congruent. Then list all other corresponding parts of the triangles that are congruent.

$$\triangle QRS \cong \triangle TWX$$

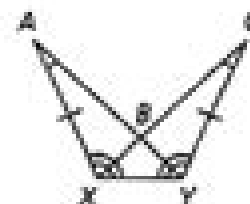
AAS  $\cong$  Corresponding parts:  $\angle Q \cong \angle T$   
 $\overline{QS} \cong \overline{TX}$   
 $\overline{RS} \cong \overline{WX}$



2. **Developing Proof** State why the two triangles are congruent. Then list all other corresponding parts of the triangles that are congruent.

$$\triangle AXY \cong \triangle CYX$$

ASA  $\cong$   $\overline{AY} \cong \overline{CX}$   $\angle AXY \cong \angle CYX$   
 $\overline{XY} \cong \overline{YX}$



3. **Given:**  $\overline{QS} \parallel \overline{RT}$ ,  $\angle R \cong \angle S$

**Prove:**  $\angle QTS \cong \angle TQR$

To start, determine how you can prove  $\triangle AXY$  and  $\triangle CYX$  are congruent. The triangles share a side and have a pair of congruent angles. Because  $\overline{QS} \parallel \overline{RT}$  alternate interior angles  $\angle SQT$  and

$$\angle RTQ$$

are congruent. The triangles can be proven congruent by AAS.



Statements	Reasons
1) $\overline{QS} \parallel \overline{RT}$ , $\angle R \cong \angle S$ (A)	1) Given
2) $\angle SQT \cong \angle RTQ$ (A)	2) Alternate interior $\angle$ are $\cong$ .
3) $\triangle SQT \cong \triangle RTQ$ (A)	

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ratio for rack and pinion 1 5 therefore no of teeth on rack 18 1 5 27 3 3 selection of

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