# 4.5

# What you should learn

Use congruent triangles to plan and write proofs.

Use congruent triangles to prove constructions are valid.

# Why you should learn it

 Congruent triangles are important in real-life problems, such as in designing and constructing bridges like the one in Ex. 16.



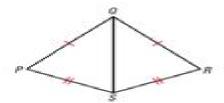
# **Using Congruent Triangles**

# GOAL

#### PLANNING A PROOF

Knowing that all pairs of corresponding parts of congruent triangles are congruent can help you reach conclusions about congruent figures.

For instance, suppose you want to prove that  $\angle POS \cong \angle ROS$  in the diagram shown at the right. One way to do this is to show that  $\triangle PQS = \triangle RQS$  by the SSS Congruence Postulate. Then you can use the fact that corresponding parts of congruent triangles are congruent to conclude that  $\angle PQS = \angle RQS$ .



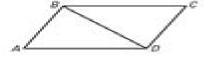
### EXAMPLE 1

#### Planning and Writing a Proof

GIVEN > AB CD, BC DA

PROVE = AB = CD

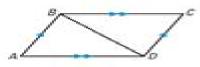
**Plan for Proof** Show that  $\triangle ABD \cong \triangle CDB$ . Then use the fact that corresponding parts of congruent triangles are congruent.



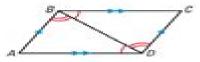
#### SOLUTION

First copy the diagram and mark it with the given information. Then mark any additional information that you can deduce. Because AB and CD are parallel segments intersected by a transversal, and  $\overline{BC}$  and  $\overline{DA}$  are parallel segments intersected by a transversal, you can deduce that two pairs of alternate interior angles are congruent.





Add deduced information.



Paragraph Proof Because AB | CD, it follows from the Alternate Interior Angles Theorem that  $\angle ABD = \angle CDB$ . For the same reason,  $\angle ADB = \angle CBD$ because  $BC \parallel DA$ . By the Reflexive Property of Congruence, BD = BD. You can use the ASA Congruence Postulate to conclude that  $\triangle ABD \cong \triangle CDB$ . Finally, because corresponding parts of congruent triangles are congruent, it follows: that AB = CD.

# Milliken Publishing Company Congruent Triangles

**Christian Drosten** 

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