- 1. Identify two triangles in which the two segments or angles are corresponding parts.
- 2. Prove that the triangles are congruent.
- 3. State that the two parts are congruent, using the reason

Corr. parts of $\cong \triangle$ are \cong .

Classroom Exercises

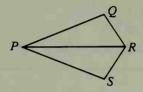
Describe your plan for proving the following.

1. Given: \overrightarrow{PR} bisects $\angle QPS$; $\overrightarrow{PQ} \cong \overrightarrow{PS}$

Prove: $\angle Q \cong \angle S$

2. Given: \overrightarrow{PR} bisects $\angle QPS$ and $\angle QRS$

Prove: $\overline{RQ} \cong \overline{RS}$

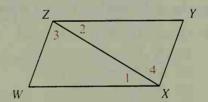


3. Given: $\overline{WX} \cong \overline{YZ}$; $\overline{ZW} \cong \overline{XY}$

Prove: $\overline{WX} \parallel \overline{ZY}$

4. Given: $\overline{ZW} \parallel \overline{YX}$; $\overline{ZW} \cong \overline{XY}$

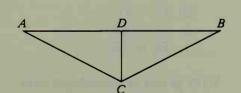
Prove: $\overline{ZY} \parallel \overline{WX}$



5. Given: $\overline{CD} \perp \overline{AB}$;

D is the midpoint of \overline{AB} .

Prove: $\overline{CA} \cong \overline{CB}$



6. Given: M is the midpoint of \overline{AB} ; plane $X \perp \overline{AB}$ at M.

What can you deduce about \overline{AP} and \overline{BP} ? Describe a plan for proving that your conclusion is correct.

