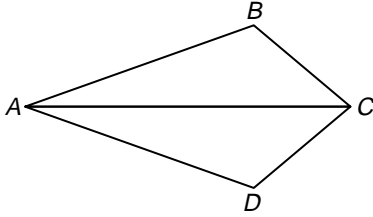


Proving Triangles Congruent

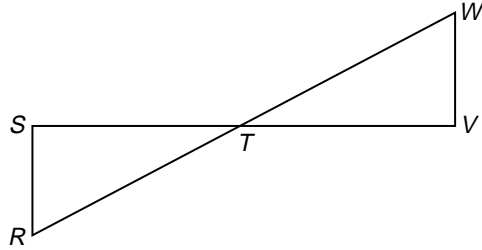
For each figure, mark all congruent parts. Then complete the prove statement and identify the postulate that can be used to prove the triangles congruent.

1.



Given: $\overline{AB} \cong \overline{AD}$
 $\overline{BC} \cong \overline{DC}$
Prove: $\triangle BCA \cong \underline{\quad?}$

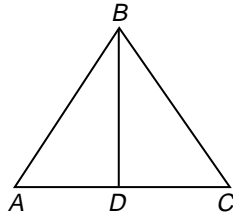
2.



Given: $\angle S$ and $\angle V$ are right angles.
 T bisects \overline{SV} .
Prove: $\triangle RST \cong \underline{\quad?}$

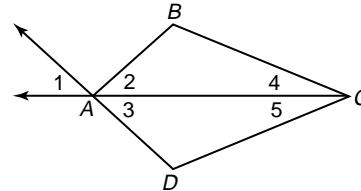
Write a two-column proof.

3. **Given:** $\overline{BD} \perp \overline{AC}$
 D bisects \overline{AC} .
Prove: $\overline{AB} \cong \overline{CB}$



Statements	Reasons

4. **Given:** $\angle 2 \cong \angle 1$
 $\angle 4 \cong \angle 5$
Prove: $\overline{BC} \cong \overline{DC}$



Statements	Reasons