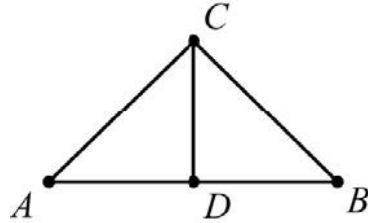


SAMPLE ITEMS

1. In this diagram, \overline{CD} is the perpendicular bisector of \overline{AB} . The two-column proof shows that \overline{AC} is congruent to \overline{BC} .



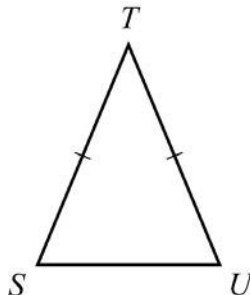
Step	Statement	Justification
1	\overline{CD} is the perpendicular bisector of \overline{AB} .	Given
2	$\overline{AD} \cong \overline{BD}$	Definition of bisector
3	$\overline{CD} \cong \overline{CD}$	Reflexive Property of Congruence
4	$\angle ADC$ and $\angle BDC$ are right angles.	Definition of perpendicular lines
5	$\angle ADC \cong \angle BDC$	All right angles are congruent.
6	$\triangle ADC \cong \triangle BDC$	_____ ? _____
7	$\overline{AC} \cong \overline{BC}$	CPCTC

Which of the following would justify Step 6?

- A. AAS
- B. ASA
- C. SAS
- D. SSS

Correct Answer: C

2. In this diagram, $\triangle STU$ is an isosceles triangle where \overline{ST} is congruent to \overline{UT} . The paragraph proof shows that $\angle S$ is congruent to $\angle U$.



It is given that \overline{ST} is congruent to \overline{UT} . Draw \overline{TV} such that V is on \overline{SU} and \overline{TV} bisects $\angle T$. By the definition of an angle bisector, $\angle STV$ is congruent to $\angle UTV$. By the Reflexive Property of Congruence, \overline{TV} is congruent to \overline{TV} . Triangle STV is congruent to triangle UTV by SAS. $\angle S$ is congruent to $\angle U$ by _____ ?

Which step is missing in the proof?

- A. CPCTC
- B. Reflexive Property of Congruence
- C. Definition of right angles
- D. Angle Congruence Postulate

Correct Answer: A