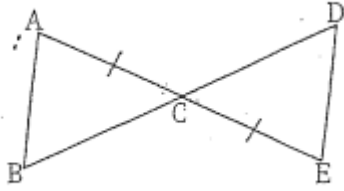


Geometry Ch. 4 Triangle Congruence Proofs Practice WS

Proofs Reasons Bank (This will NOT be provided for you on the test) : Given, Vertical Angles are Congruent, Reflexive Property, Def of Angle Bisector, Def of Midpoint, Alt. Interior Angles \cong , Triangles congruent (SSS, SAS, HL, ASA, AAS), CPCTC

1. (4 steps)

Given $\overline{AB} \parallel \overline{ED}$, $\overline{AC} \cong \overline{EC}$

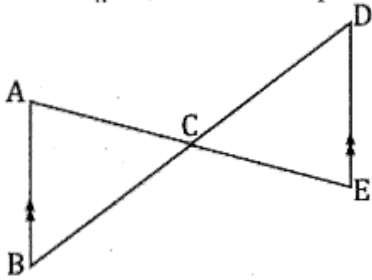


Prove: $\triangle ABC \cong \triangle EDC$

Statement	Reason

2. (6 steps)

Given: $\overline{AB} \parallel \overline{DE}$, C is the midpoint of \overline{AE}



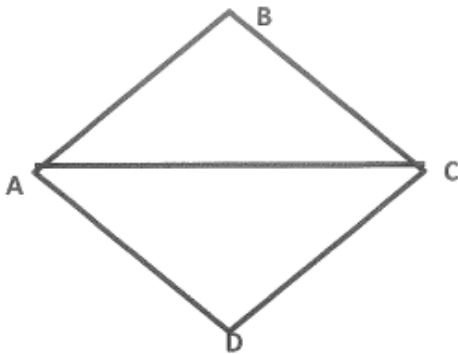
Prove: $\overline{BC} \cong \overline{DC}$

Statement	Reason

3. (4 steps)

Given: $\overline{BC} \cong \overline{CD}$ and \overline{AC} bisects $\angle BCD$

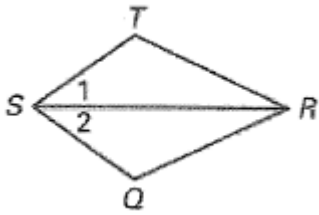
Prove: $\triangle ABC \cong \triangle ADC$



Statement	Reason

Proofs Reasons Bank (This will NOT be provided for you on the test) : Given, Vertical Angles are Congruent, Reflexive Property, Def of Angle Bisector, Def of Midpoint, Alt. Interior Angles \cong , Triangles congruent (SSS, SAS, HL, ASA, AAS) , CPCTC

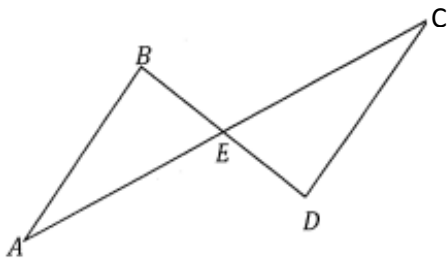
4. (4 steps)



Given: \vec{SR} bisects $\angle TSQ$,
 $\angle T \cong \angle Q$
Prove: $\triangle RTS \cong \triangle RQS$

Statement	Reason

5. (4 steps)



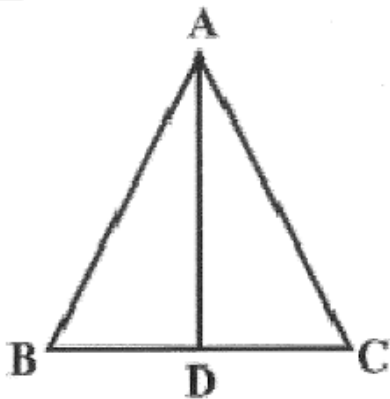
Given: $\overline{AB} \cong \overline{CD}$, $\angle A \cong \angle C$
Prove: $\overline{BE} \cong \overline{DE}$

Statement	Reason

6. (5 steps)

Given: $\overline{AB} \cong \overline{AC}$ and \overline{AD} bisects \overline{BC}

Prove: $\angle BAD \cong \angle CAD$



Statement	Reason