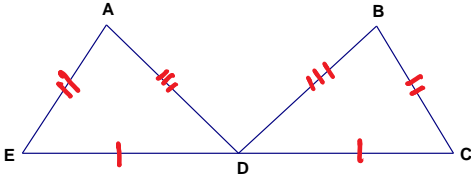


Key

PROOFS PART TWO

1.



Given:

$$\overline{ED} \cong \overline{DC}$$

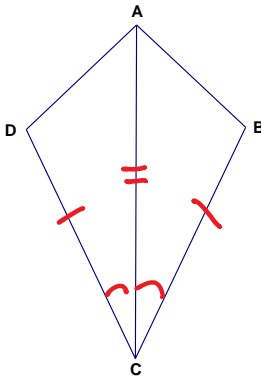
$$\overline{AE} \cong \overline{BC}$$

$$\overline{AD} \cong \overline{BD}$$

Prove: $\triangle ADE \cong \triangle BDC$

statements	reasons
1. $\overline{ED} \cong \overline{DC}$	1. Given
2. $\overline{AE} \cong \overline{BC}$	2. Given
3. $\overline{AD} \cong \overline{BD}$	3. Given
4. $\triangle ADE \cong \triangle BDC$	4. SSS

2.



Given:

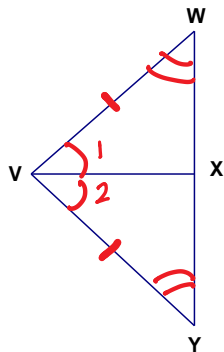
$$\angle ACD \cong \angle ACB$$

$$\overline{CD} \cong \overline{BC}$$

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

statements	reasons
1. $\angle ACD \cong \angle ACB$	1. Given
2. $\overline{CD} \cong \overline{BC}$	2. Given
3. $\overline{AC} \cong \overline{AC}$	3. Reflexive property
4. $\triangle ACD \cong \triangle ACB$	4. SAS

3.



Given:

$$\overline{WV} \cong \overline{YV}$$

$$\angle W \cong \angle Y$$

\overline{XV} bisects $\angle WVY$

Prove: $\triangle VWX \cong \triangle VYX$

statements	reasons
1. $\angle W \cong \angle Y$	1. Given
2. $\overline{WV} \cong \overline{YV}$	2. Given
3. \overline{XV} bisects $\angle WVY$	3. Given
4. $\angle 1 \cong \angle 2$	4. Def. of bisects
5. $\triangle VWX \cong \triangle VYX$	5. ASA