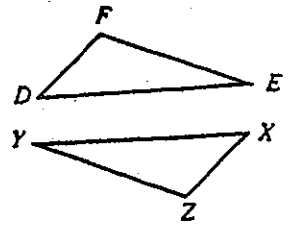


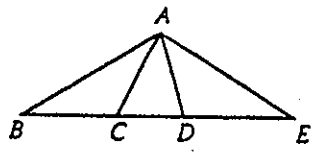
Complete each proof.

1. Given:  $\angle D \cong \angle X$ ,  $\angle F \cong \angle Z$ ,  $\overline{DF} \cong \overline{XZ}$   
 Prove:  $\triangle DEF \cong \triangle XYZ$



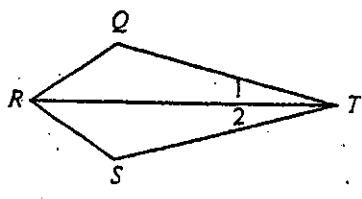
Statements	Reasons
1. $\angle D \cong \angle X$	1. ___
2. $\overline{DF} \cong \overline{XZ}$	2. ___
3. $\angle F \cong \angle Z$	3. ___
4. $\triangle DEF \cong \triangle XYZ$	4. ___

2. Given:  $\overline{AC} \cong \overline{AD}$ ,  $\overline{BC} \cong \overline{DE}$ ,  $\overline{AB} \cong \overline{AE}$   
 Prove:  $\triangle ABC \cong \triangle AED$



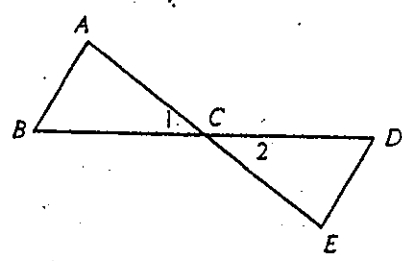
Statements	Reasons
1. $\overline{AC} \cong \overline{AD}$	1. ___
2. $\overline{BC} \cong \overline{DE}$	2. ___
3. ___	3. Given
4. $\triangle ABC \cong \triangle AED$	4. ___

3. Given:  $\overline{RT}$  bisects  $\angle QRS$ .  $\angle 1 \cong \angle 2$   
 Prove:  $\triangle RTQ \cong \triangle RTS$



Statements	Reasons
1. $\overline{RT}$ bisects $\angle QRS$ .	1. ___
2. $\angle QRT \cong \angle SRT$	2. ___
3. $\overline{RT} \cong \overline{RT}$	3. ___
4. $\angle 1 \cong \angle 2$	4. ___
5. ___	5. ASA

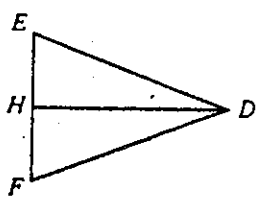
4. Given:  $\overline{AE}$  bisects  $\overline{BD}$ .  $\overline{AC} \cong \overline{EC}$   
 Prove:  $\triangle ABC \cong \triangle EDC$



Statements	Reasons
1. $\overline{AE}$ bisects $\overline{BD}$ .	1. ___
2. $\overline{BC} \cong \overline{DC}$	2. ___
3. $\angle 1 \cong \angle 2$	3. ___
4. ___	4. ___
5. $\triangle ABC \cong \triangle EDC$	5. ___

Write a two-column proof for each exercise.

5. Given:  $\overline{DE} \cong \overline{DF}$ ,  $\overline{DH}$  bisects  $\overline{EF}$ .  
 Prove:  $\triangle DHE \cong \triangle DHF$



6. Given:  $\overline{DE} \cong \overline{DF}$ ,  $\overline{DH}$  bisects  $\angle EDF$ .  
 Prove:  $\triangle DHE \cong \triangle DHF$

7. Given:  $\overline{AB} \cong \overline{CD}$ ,  $\angle 1 \cong \angle 4$   
 Prove:  $\triangle ABC \cong \triangle CDA$

8. Given:  $\angle 2 \cong \angle 3$ ,  $\angle 1 \cong \angle 4$   
 Prove:  $\triangle ABC \cong \triangle CDA$

