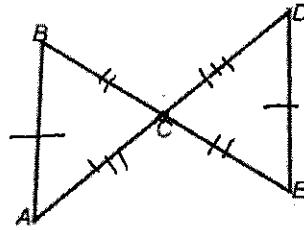


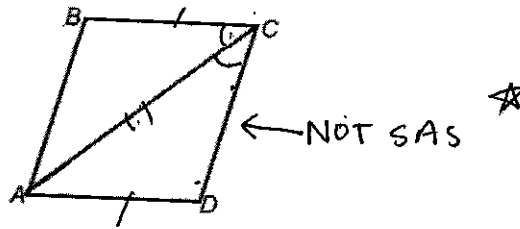
10. Given:  $\overline{BA} \cong \overline{ED}$   
 C is the midpoint of  $\overline{BE}$  and  $\overline{AD}$   
 Prove:  $\triangle ABC \cong \triangle DEC$



Key

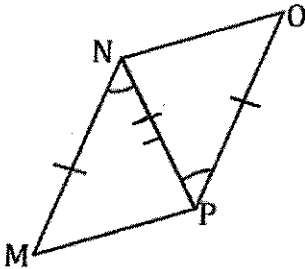
Statement	Reason
1. $\overline{BA} \cong \overline{ED}$	Given
2. C is the midpoint of $\overline{BE}$ and $\overline{AD}$	Given
3. $\overline{BC} \cong \overline{EC}$	Defn of Midpoint
4. $\overline{AC} \cong \overline{DC}$	Defn of Midpoint
5. $\triangle ABC \cong \triangle DEC$	SSS

11. Given:  $\overline{BC} \cong \overline{DA}$   
 $\overline{AC}$  bisects  $\angle BCD$   
 Prove:  $\triangle ABC \cong \triangle CDA$



Statement	Reason
1. $\overline{BC} \cong \overline{DA}$	Given
2. $\overline{AC}$ bisects $\angle BCD$	Given
3. $\angle BCA \cong \angle DCA$	Defn of Bisect
4. $\overline{AC} \cong \overline{AC}$	Reflexive Prop.
⑤ $\triangle ABC \cong \triangle CDA$	<del>SAS</del> Not Congruent

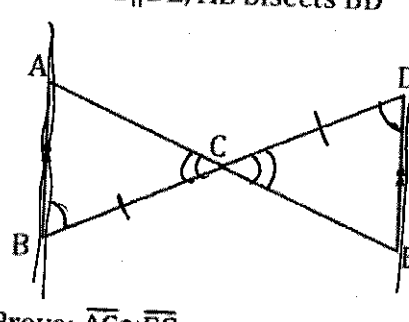
12. Given:  $\angle MNP \cong \angle OPN$ , and  $\overline{MN} \cong \overline{OP}$



Prove:  $\overline{MP} \cong \overline{NO}$

Statements	Reasons
1. $\angle MNP \cong \angle OPN$	1. Given
2. $\overline{MN} \cong \overline{OP}$	2. Given
3. $\overline{NP} \cong \overline{NP}$	3. Reflexive
4. $\triangle MNP \cong \triangle OPN$	4. SAS
5. $\overline{MP} \cong \overline{NO}$	5. CPCTC

13. Given:  $\overline{AB} \parallel \overline{DE}$ ,  $\overline{AE}$  bisects  $\overline{BD}$



Prove:  $\overline{AC} \cong \overline{EC}$

Statements	Reasons
1. $\overline{AB} \parallel \overline{DE}$	1. Given
2. $\overline{AE}$ bisects $\overline{BD}$	2. Given
3. $\angle ABC \cong \angle EDC$	3. Alt Int $\angle$ s
4. $\angle ACB \cong \angle DCE$	4. <del>Vertical</del> Vertical $\angle$ s
5. $\overline{BC} \cong \overline{CD}$	5. Def of Bisect
6. $\triangle ABC \cong \triangle EDC$	6. ASA
7. $\overline{AC} \cong \overline{EC}$	7. <del>CPCTC</del> CPCTC