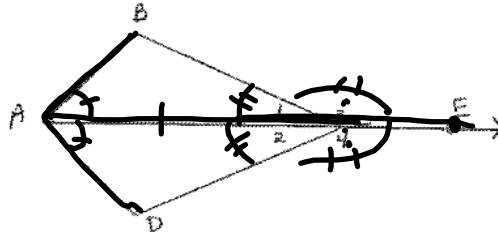


Name _____

4-1 to 4-3 Practice Proofs

1) Given: \overline{AE} bisects $\angle BAD$
 $\angle 3 \cong \angle 4$

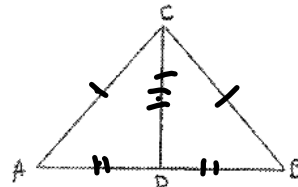
Prove: $\triangle ABC \cong \triangle ADC$



Statements	Reasons
1.	1. Given
2. $\angle BAC \cong \angle DAC$	2. Def. of \angle bisector
3. $\overline{AC} \cong \overline{AC}$	3. Reflexive Prop
4. $\angle 1 \cong \angle 2$	4. \cong Supplement Thm.
5. $\triangle ABC \cong \triangle ADC$	5. ASA Post

2) Given: $\overline{CA} \cong \overline{CB}$; D is midpt. of \overline{AB}

Prove: $\triangle ACD \cong \triangle BCD$



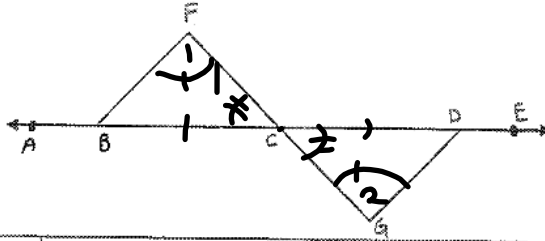
Statements	Reasons
	Given
$AD \cong BD$	Def of midpt
$CD \cong CD$	Reflexive
$\triangle ACD \cong \triangle BCD$	SSS post

Name _____

4-1 to 4-3 Practice Proofs

3) Given: $\angle 1 \cong \angle 2$; C is midpt. of \overline{BD}

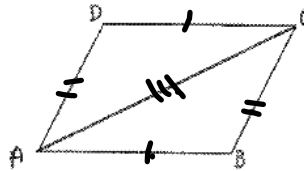
Prove: $\triangle BFC \cong \triangle DGC$



Statements	Reasons
	Given.
$BC \cong CD$	Def of midpt.
$\angle FCB \cong \angle DCG$	Vertical \angle Thm.
$\triangle BFC \cong \triangle DGC$	AAS Thm.

4) Given: Both pairs of opposite sides of quadrilateral ABCD are congruent.

Prove: $\triangle ABC \cong \triangle CDA$



Statements	Reasons
A	Given
$AC \cong AC$	Reflective
$\triangle ABC \cong \triangle CDA$	SSS