For each problem below, write a two-column proof.

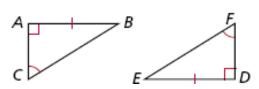
1. Use AAS to prove the triangles congruent.

Given: $\overline{AD} \parallel \overline{BC}, \overline{AD} \cong \overline{CB}$ Prove: $\triangle AED \cong \triangle CEB$



Statements	Reasons
	1.
	2. alternate interior angles are congruent
	3.
	4.

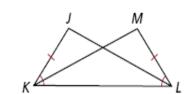
2. Given: $\overline{AB} \cong \overline{DE}$, $\angle C \cong \angle F$ Prove: $\triangle ABC \cong \triangle DEF$



(3 or 4 steps)

Statements	Reasons
	-

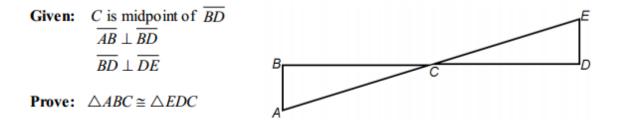
3. Given: $\overline{JK} \cong \overline{ML}$, $\angle JKL \cong \angle MLK$ Prove: $\triangle JKL \cong \triangle MLK$



Statements	Reasons
	1. Given
	2. Given
	3. Reflexive property
	4.

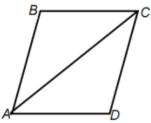
Name:_____

Complete each proof by filling in the correct reasons.



Statement	Reason
1. <i>C</i> is midpoint of \overline{BD}	
2. $\overline{AB} \perp \overline{BD}$ and $\overline{BD} \perp \overline{DE}$	
3. $\overline{BC} \cong \overline{CD}$	
4. $\angle BCA \cong \angle ECD$	
5. $\angle ABC$ and $\angle EDC$ are right angles	
6. $\angle ABC \cong \angle EDC$	
7. $\triangle ABC \cong \triangle EDC$	

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



Statement	Reason
1. $\overline{BC} \cong \overline{DA}$	
2. \overline{AC} bisects $\angle BCD$	
3. $\angle BCA \cong \angle DCA$	
4. $\overline{AC} \cong \overline{AC}$	
5. $\triangle ABC \cong \triangle CDA$	