Proof Practice Test 2

Name _____

On your own sheet of clean notebook paper, do a 2-column proof for each problem below.

Figure 1

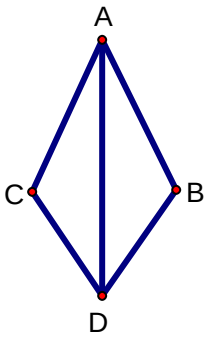


Figure 2

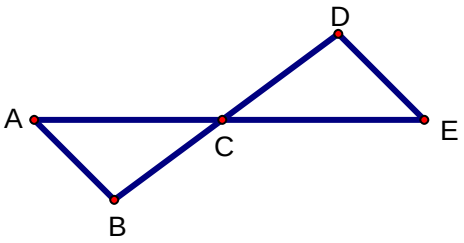
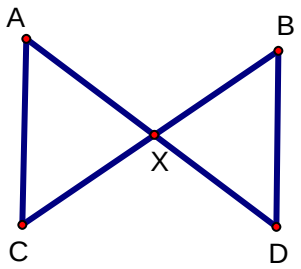


Figure 3



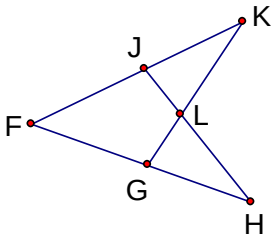
1. In figure 1, you are given that $\overline{AD}$ bisects $\angle CDB$ and $\overline{CD} \cong \overline{BD}$
   Prove: $\angle C = \angle B$

2. In figure 2, you are given that C is the midpoint of $\overline{AE}$ and $\angle ABC = \angle EDC$
   Prove: $\angle A = \angle E$

3. In figure 3, you are given that X is the midpoint of both $\overline{BC}$ and $\overline{AD}$.
   Prove: AC = BD

Proof 4

Given: $\overline{FK} = \overline{FH}$; $\angle H = \angle K$
Prove: JH = GK



Proof 5

Given: BD = EC
AD = AE

Prove: $\Delta BAE \cong \Delta CAD$