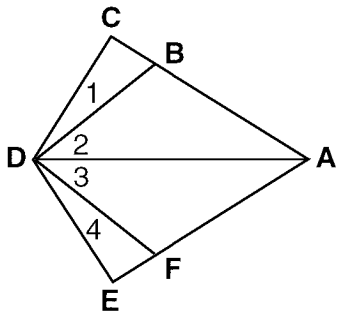
Name: _____
CC Geometry Honors

Proofs Practice

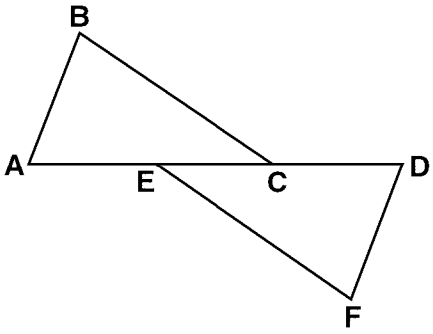
1)



Given: $\overline{DA}$ bisects ∠BDF
∠1 ≅ ∠4
$\overline{CD} \cong \overline{DE}$

Prove: ΔCDA ≅ ΔEDA

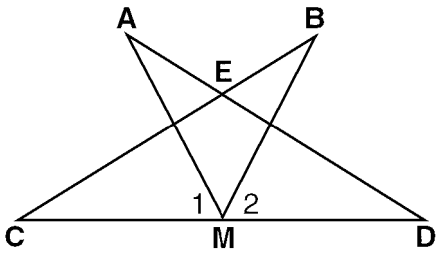
2)



Given: ∠A ≅ ∠D
$\overline{AE} \cong \overline{CD}$
∠AEF ≅ ∠BCD

Prove: ΔABC ≅ ΔDFE

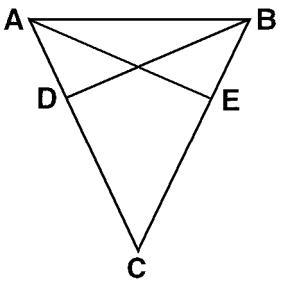
3)



Given: $\angle C \cong \angle D$
$\angle 1 \cong \angle 2$
M is the midpoint of $\overline{DC}$

Prove: $\overline{CB} \cong \overline{DA}$

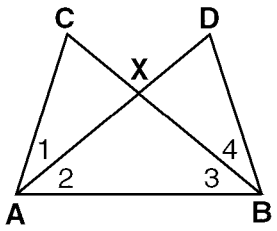
4)



Given: $\overline{CD} \cong \overline{CE}$
$\overline{AE} \perp \overline{BC}$
$\overline{BD} \perp \overline{AC}$

Prove: $\overline{AE} \cong \overline{BD}$

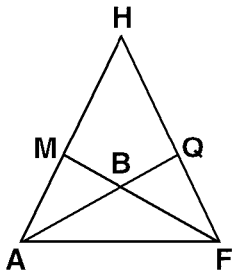
5)



Given: BC and AD intersect at X
$\overline{AC} \cong \overline{DB}$
$\angle CAB \cong \angle DBA$
$\angle 2 \cong \angle 3$

Prove: $\overline{CX} \cong \overline{XD}$

6)



Given: $\overline{HA} \cong \overline{HF}$
$\overline{HM} \cong \overline{HQ}$

Prove: $\overline{FM} \cong \overline{AQ}$

1) Answer is a SAS proof.

2) Answer is an ASA proof.

3) Answer is an ASA proof.

4) Answer is a proof.

5) Answer is a proof.

6) Answer is a proof.