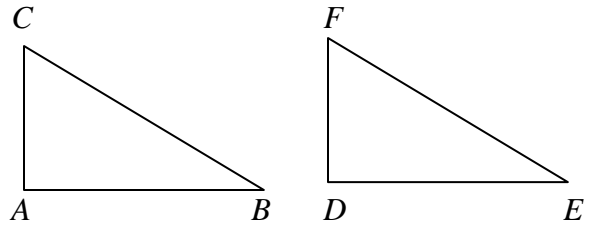


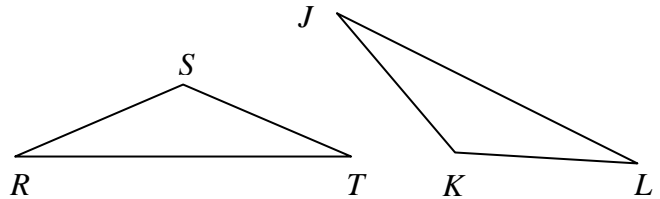
Congruent Triangle Proofs

Prove the following triangles congruent.

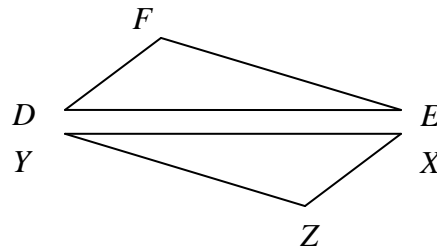
1. Given: $\overline{AC} \cong \overline{DF}$
 $\overline{AB} \cong \overline{DE}$
 $\angle A \cong \angle D$
Prove: $\triangle ABC \cong \triangle DEF$



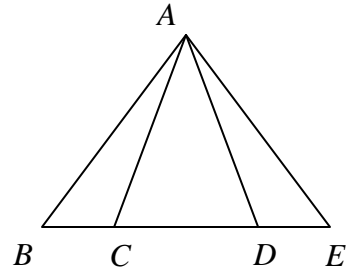
2. Given: $\overline{RS} \cong \overline{KL}$
 $\overline{ST} \cong \overline{JK}$
 $\overline{RT} \cong \overline{JL}$
Prove: $\triangle RST \cong \triangle LKJ$



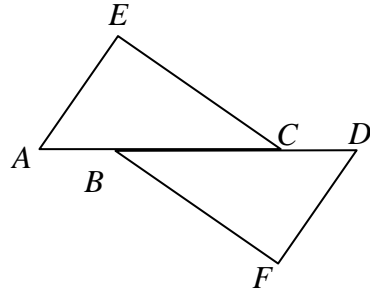
3. Given: $\angle D \cong \angle X$
 $\angle F \cong \angle Z$
 $\overline{DF} \cong \overline{XZ}$
Prove: $\triangle DEF \cong \triangle XYZ$



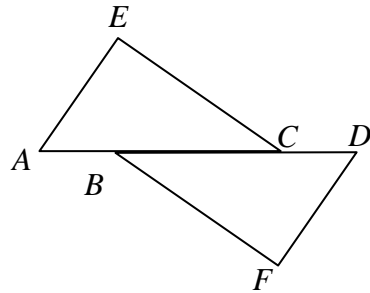
4. Given: $\overline{AC} \cong \overline{AD}$
 $\overline{BC} \cong \overline{DE}$
 Prove: $\triangle ABC \cong \triangle AED$



5. Given: $\overline{AC} \cong \overline{BD}$
 $\angle A \cong \angle D$
 $\angle ACE \cong \angle DBF$
 Prove: $\triangle ACE \cong \triangle DBF$

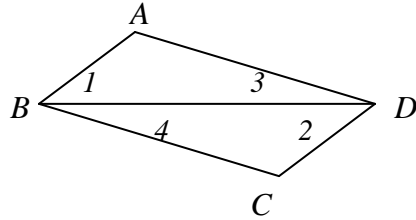


6. Given: $\overline{AC} \cong \overline{BD}$
 $\overline{AE} \cong \overline{DF}$
 $\angle A \cong \angle D$
 Prove: $\triangle CAE \cong \triangle BDF$

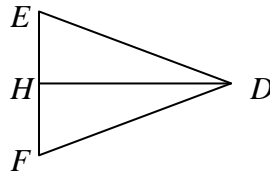


Proofs Using the Reflexive Property

7. Given: $\angle 1 \cong \angle 2$
 $\angle 3 \cong \angle 4$
Prove: $\triangle ABD \cong \triangle CDB$



8. Given: $\overline{DE} \cong \overline{DF}$
 $\overline{EH} \cong \overline{HF}$
Prove: $\triangle DHE \cong \triangle DHF$



9. Given: $\angle 1 \cong \angle 2$
 $\overline{AB} \cong \overline{CD}$
Prove: $\triangle ABD \cong \triangle CDB$

