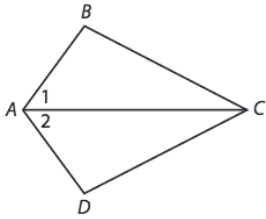


Write a paragraph proof.

Given:  $\overline{AB} \cong \overline{AD}$  and  $\angle 1 \cong \angle 2$

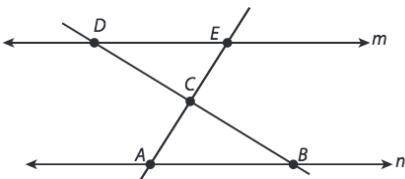
Prove:  $\triangle BAC \cong \triangle DAC$



Write a flowchart proof.

Given:  $\overline{AC} \cong \overline{EC}$  and  $m \parallel n$

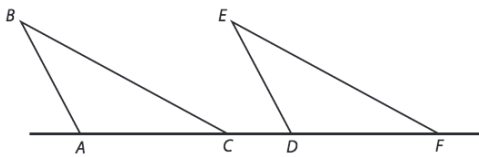
Prove:  $\triangle ABC \cong \triangle EDC$



Write a paragraph proof.

Given:  $\angle ABC \cong \angle DEF$ ,  $\overline{BC} \parallel \overline{EF}$ ,  $\overline{AC} \cong \overline{DF}$ .

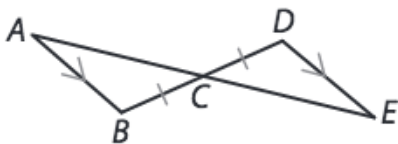
Prove:  $\triangle ABC$  is congruent to  $\triangle DEF$



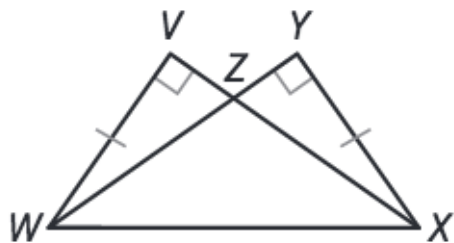
Write a two-column proof.

Given:  $\overline{AB} \parallel \overline{DE}$ ,  $\overline{CB} \cong \overline{CD}$ .

Prove:  $\triangle ABC \cong \triangle EDC$



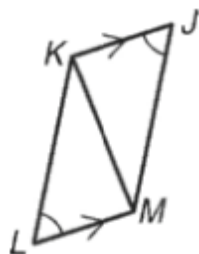
Determine whether there is enough information to prove that triangles  $\triangle VWX$  and  $\triangle YXW$  are congruent. Explain.



**Given:**  $\angle L \cong \angle J$ ,  $\overline{KJ} \parallel \overline{LM}$

**Prove:**  $\angle LKM \cong \angle JMK$

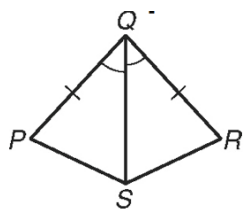
Write a proof (you can choose the type)



**Given:**  $\overline{PQ} \cong \overline{RQ}$ ,  $\angle PQS \cong \angle RQS$

**Prove:**  $\angle P \cong \angle R$

Write a proof (you can choose the type)



Given that polygon  $ABCDEF$  is a regular hexagon, prove that  $\overline{AC} \cong \overline{AE}$ .

Write a two-column proof.

