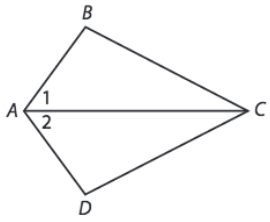
Write a paragraph proof.

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

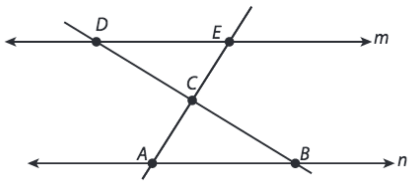
Prove: $\triangle BAC \cong \triangle DAC$



Write a flowchart proof.

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

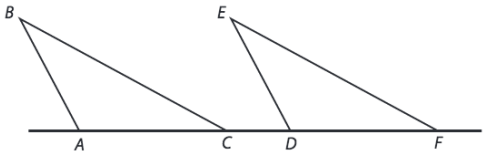
Prove: $\triangle ABC \cong \triangle EDC$



Write a paragraph proof.

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

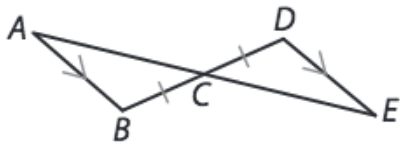
Prove: ΔABC is congruent to ΔDEF



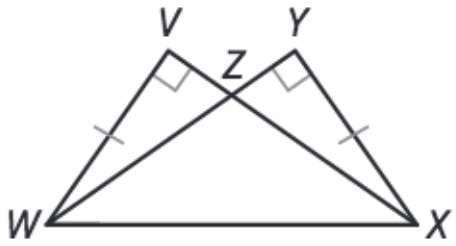
Write a two-column proof.

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

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



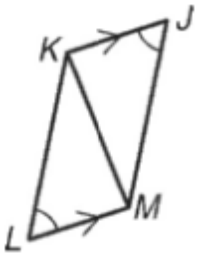
Determine whether there is enough information to prove that triangles $\triangle VWX$ and $\triangle YXW$ are congruent. Explain.



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

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

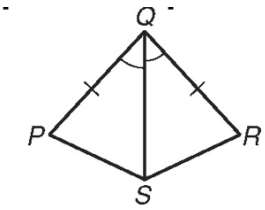
Write a proof (you can choose the type)



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.