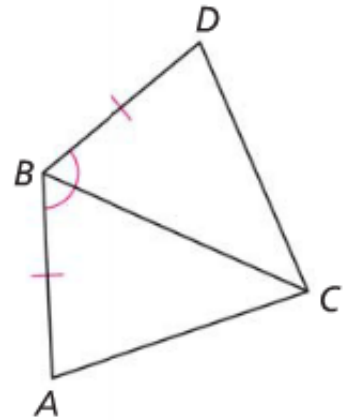Complete proofs for each example. Use the 5 tips to help you get started.

1. Use the figure below and the following information.

Given: $\overline{AB} \cong \overline{DB}$

$\overline{BC}$ bisects $\angle ABD$
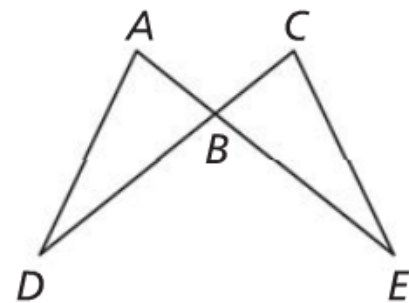
Prove: $\overline{AC} \cong \overline{DC}$

Provide the missing reasons in the proof to show that $\overline{AC} \cong \overline{DC}$.

Statements	Reasons
a. $\overline{AB} \cong \overline{BD}$	Given
b. $m\angle ABC = m\angle DBC$	?
c. $\overline{BC} \cong \overline{BC}$	?
d. $\triangle ABC \cong \triangle DBC$	?
e. $\overline{AC} \cong \overline{DC}$	?

2. Write a proof using this information.

Given $\overline{AB} \cong \overline{CB}$ and $\overline{BD} \cong \overline{BE}$

Prove $\triangle ABD \cong \triangle CBE$

Complete proofs for each example. Use the 5 tips to help you get started.

3. Write a proof using this information.

Given $\overline{SV} \cong \overline{UT}$ and $\overline{ST} \cong \overline{UV}$

Prove $\triangle STV \cong \triangle UVT$