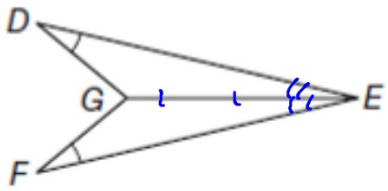
Given: $\angle D \cong \angle F$
$\overline{GE}$ *bisects* $\angle DEF$

Prove: $\overline{DG} \cong \overline{FG}$



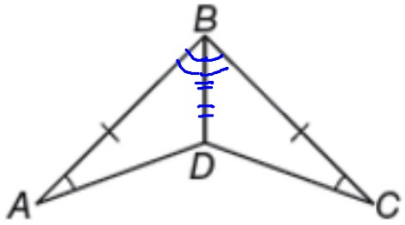
Statement	Reason
1) $\angle D \cong \angle F$, $\overline{GE}$ bisects $\angle DEF$	1) Given
2) $\angle DEG \cong \angle FEG$	2) Definition of Bisector
3) $\overline{GE} \cong \overline{GE}$	3) Reflexive prop
4) $\triangle DEG \cong \triangle FEG$	4) AAS
5) $\overline{DG} \cong \overline{FG}$	5) CPCTC

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

$\angle A \cong \angle C$

$\overline{BD}$ bisects $\angle ABC$

Prove: $\overline{AD} \cong \overline{CD}$



Statement	Reason
1) $\overline{AB} \cong \overline{CB}$, $\angle A \cong \angle C$, $\overline{BD}$ bisects $\angle ABC$	1) Given
2) $\angle ABD \cong \angle CBD$	2) Definition of Bisector
3) $\overline{BD} \cong \overline{BD}$	3) Reflexive prop.
4) $\triangle ABD \cong \triangle CBD$	4) ASA (SAS) with Reflexive prop
5) $\overline{AD} \cong \overline{CD}$	5) CPCTC