

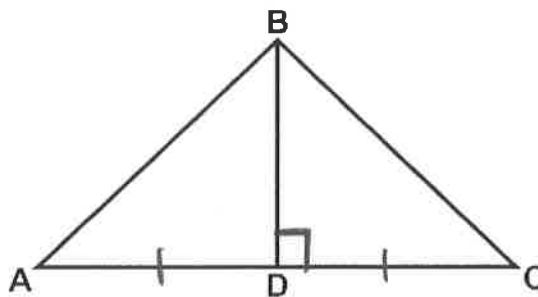
6-7 Introduction to Triangle Proofs

Name _____

Date _____

Given: $\overline{BD} \perp \overline{AC}$, D is the midpoint of $\overline{AC}$

Prove: $\triangle ADB \cong \triangle CDB$



Statements	Reasons
1) $\overline{BD} \perp \overline{AC}$, D is midpt. of $\overline{AC}$	1) Given
2) $\overline{AD} \cong \overline{DC}$	2) Definition of midpoint
3) $\overline{BD} \cong \overline{BD}$	3) Shared side (Reflexive Property)
4) $\angle BDC = 90^\circ$	4) Def. of perpendicular
5) $\angle BDA = 90^\circ$	5) Same
6) $\triangle ADB \cong \triangle CDB$	6) SAS

Can
combine
in
one
step