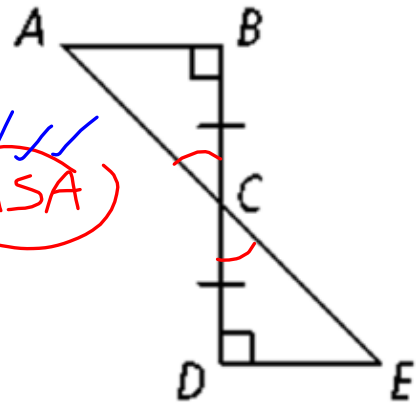


## DO NOW

Given:  $\overline{BD} \perp \overline{AB}$ ,  $\overline{BD} \perp \overline{DE}$ ,  
 $\overline{BC} \cong \overline{DC}$

Prove:  $\angle A \cong \angle E$



Statements	Reasons
1) $\overline{BD} \perp \overline{AB}$ , $\overline{BD} \perp \overline{DE}$ $\overline{BC} \cong \overline{DC}$	1) Given
2) $\angle ABC$ and $\angle CDE$ are right $\angle$ 's	2) $\perp$ lines form right $\angle$ 's
3) $\angle ABC \cong \angle CDE$	3) Right $\angle$ 's are $\cong$
4) $\angle ACB \cong \angle ECD$	4) Vertical $\angle$ 's are $\cong$
5) $\triangle ABC \cong \triangle EDC$	5) ASA
6) $\angle A \cong \angle E$	6) CPCTC