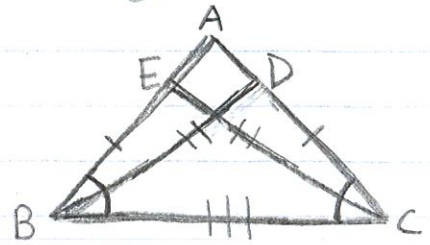


Iris Edmunds
 #22 Proof Presentation

Given: $\overline{BE} \cong \overline{CD}$; $\overline{BD} \cong \overline{CE}$
 Prove: $\triangle ABC$ is isosceles

diagram:



statements	reasons
① $\overline{BE} \cong \overline{CD}$; $\overline{BD} \cong \overline{CE}$	① given
② $\overline{BC} \cong \overline{BC}$	② reflexive
③ $\triangle DBC \cong \triangle ECB$	③ SSS \cong
④ $\angle ABC \cong \angle ACB$	④ CPCTC
⑤ $\overline{BA} \cong \overline{AC}$	⑤ base \angle 's \cong theorem <i>Converse</i>
⑥ $\triangle ABC$ is isosceles	⑥ definition of isosceles \triangle