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|  **∠*EAD* ≅ ∠*EDA*** |
|  **Given** |
| **If two ∠s of a ∆ are ≅, then the sides opposite the ∠*s* are ≅.** |
| **∆*BEC* is equilateral.** |
| **∠*ABE* and ∠*DCE* are right ∠*s.*** |
| $\overbar{BC}≅ \overbar{CE}$ |
| **Definition of equilateral ∆** |
| **∆*ABE* and ∆*DCE* are right ∆s.** |
| **Definition of right ∆** |
| **∆*ABE* ≅∆*DCE*** |
| **HL Theorem**$$\overbar{ED}≅\overbar{AE}$$ |