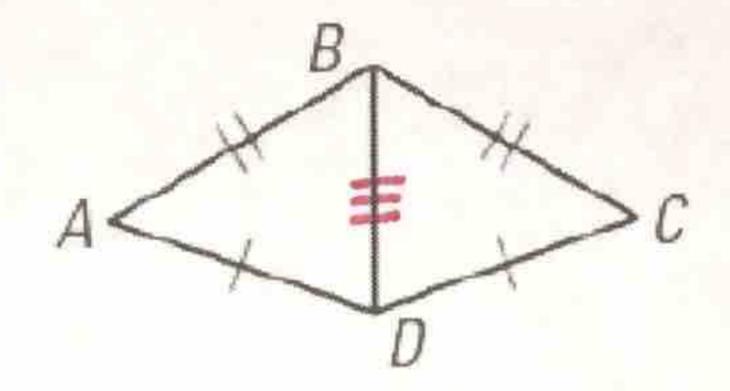
# 4.6 Use Congruent Triangles

By definition, congruent triangles have congruent corresponding parts. So if 2 triangles can be proven to be congruent, then their corresponding parts must be congruent as well.

CPCPTC = Corresponding Parts of Congruent Triangles are Congruent!

Ex 1: Prove  $\angle A \cong \angle C$ .



## STATEMENTS

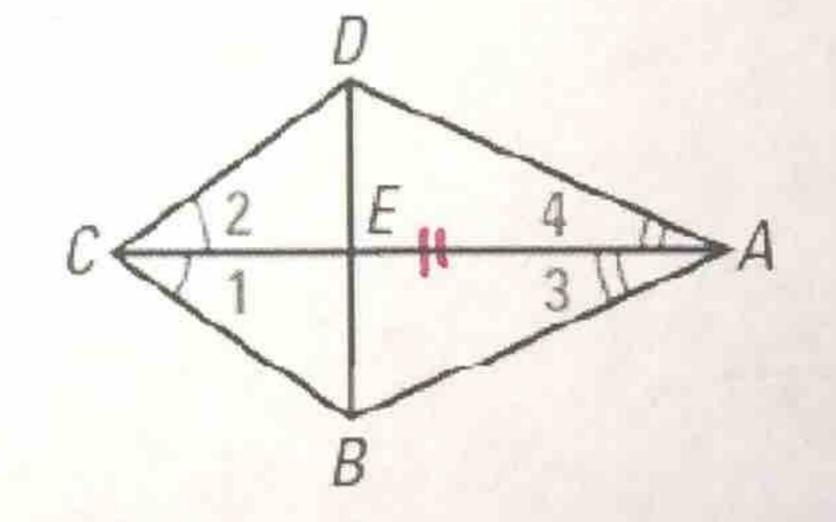
- 1. 杯的当瓦, AD 当瓦。 2. 西西当西
- 3. AABD = ACBD
- 4. LAZLC

## REASONS

- 1. Given on diagram
  2. Reflexive property
- 3. **SSS**
- 4. CPCTZ

Ex 2: Write a proof (NOT PLAN FOR PROOF).

GIVEN  $\triangleright$   $\angle 1 \cong \angle 2$ ,  $\angle 3 \cong \angle 4$ PROVE  $\triangleright \triangle BCE \cong \triangle DCE$ 



#### STATEMENTS

- 1. LI = L2, L3= L4
- 2. CA = CA
- 3. ACBA = ACDA
- 34. CE = CE 55. CE = CD
  - - 6. A BCE = ADCE

### REASONS

- 1. Given
- 2. Reflexive Property
- 3. ASA
- 4. Reflexive Property
  5. CPCTC
- 6. SAS