

# Geometry

## 5.7 Using Congruent Triangles

### Definition of Congruent Triangles

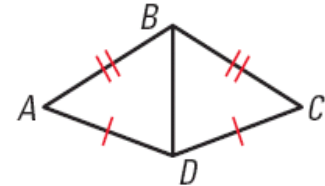
- By the definition of congruent triangles, we know that the \_\_\_\_\_

### CPCTC

C\_\_\_\_\_ P\_\_\_\_\_ of C\_\_\_\_\_ T\_\_\_\_\_ are C\_\_\_\_\_

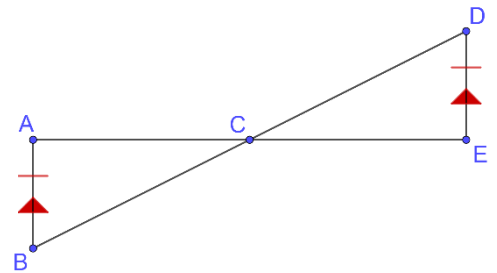
- To show that parts of triangles are congruent
  - First show that the \_\_\_\_\_
    - \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
  - Second say that the \_\_\_\_\_ parts are congruent using
    - \_\_\_\_\_ or \_\_\_\_\_

Write a plan for a proof to show that  $\angle A \cong \angle C$



Given:  $\overline{AB} \cong \overline{DE}$ ,  $\overline{AB} \parallel \overline{DE}$

Prove: C is the midpoint of  $\overline{AE}$



Assignment: 271 #2, 3, 4, 6, 8, 10, 13, 17, 19, 20, 23, 25, 26, 27, 28 = 15 total