

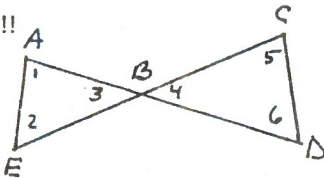
For each figure:

- List congruent parts from the figure and the given
- Mark the figure
- Justify from the orange sheet (maybe - given)
- Name the postulate or theorem to prove the triangles congruent
- Complete the congruence statement

1. Given:  $\overline{CE}$  bisects  $\overline{AD}$

$$\angle A \cong \angle D$$

Mark !!



List congruent parts

\_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_

Justifications

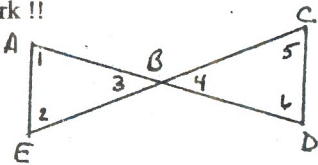
\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Post/Thm \_\_\_\_\_

$$\triangle ABE \cong \triangle CDE$$

2. Given: B is the midpoint of  $\overline{CE}$ ,  $\angle A \cong \angle D$

Mark !!



List congruent parts

\_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_

Justifications

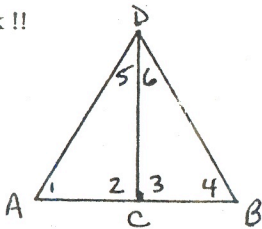
\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Post/Thm \_\_\_\_\_

$$\triangle AEB \cong \triangle CED$$

3. Given:  $\overline{AD} \cong \overline{DB}$   
 $\overline{AB} \perp \overline{DC}$

Mark !!



List congruent parts

\_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_

Justifications

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

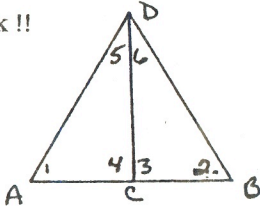
Post/Thm \_\_\_\_\_

$$\triangle ADC \cong \triangle BDC$$

4. Given:  $\overline{DC}$  bisects  $\angle ADB$

$$\angle 3 \cong \angle 4$$

Mark !!



List congruent parts

\_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_

Justifications

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

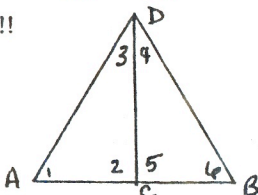
Post/Thm \_\_\_\_\_

$$\triangle DAC \cong \triangle DBC$$

5. Given:  $\overline{DC}$  bisects  $\angle ADB$

$$\overline{AD} \cong \overline{DB}$$

Mark !!



List congruent parts

\_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_

Justifications

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Post/Thm \_\_\_\_\_

$$\triangle BCD \cong \triangle ACD$$

6. Given:  $\overline{AB} \parallel \overline{DC}$

$$\overline{AD} \parallel \overline{BC}$$

Mark !!

List congruent parts

\_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_

Justifications

\_\_\_\_\_  
 \_\_\_\_\_

Post/Thm \_\_\_\_\_

$$\triangle ABD \cong \triangle DCB$$