

**LABEL DIAGRAMS! State whether triangles are congruent by SSS, SAS, ASA, AAS or not congruent. Write and congruency statement.**

1.

SSS  
 SAS  
 ASA  
 AAS  
 Not Congruent

2.

SSS  
 SAS  
 ASA  
 AAS  
 Not Congruent

3.

SSS  
 SAS  
 ASA  
 AAS  
 Not Congruent

4.

SSS  
 SAS  
 ASA  
 AAS  
 Not Congruent

5.

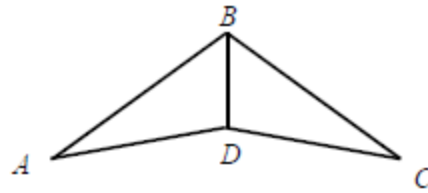
SSS  
 SAS  
 ASA  
 AAS  
 Not Congruent

6.

SSS  
 SAS  
 ASA  
 AAS  
 Not Congruent

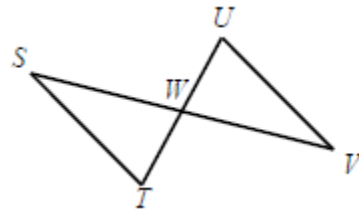
Complete the proofs below using the most appropriate method.

7. **Given:**  $\overline{BD}$  bisects  $\angle ABC$ ,  $\angle BAD \cong \angle BCD$   
**Prove:**  $\triangle ABD \cong \triangle CBD$



Statements	Reasons
1. $\overline{BD}$ bisects $\angle ABC$	
2.	Definition of bisect
3. $\angle BAD \cong \angle BCD$	
4.	Reflexive Property
5.	

8. **Given:**  $\overline{ST} \parallel \overline{UV}$ ,  $\overline{ST} \cong \overline{UV}$   
**Prove:**  $\triangle STW \cong \triangle VUW$



Statements	Reasons
1. $\overline{ST} \parallel \overline{UV}$	
2. $\angle S \cong \angle V$	
3. $\angle T \cong \angle U$	
4. $\overline{ST} \cong \overline{UV}$	
5. $\triangle STW \cong \triangle VUW$	