

A. Getting Ready for Proofs

What are the 5 ways we learned to prove triangles congruent?

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What are the 2 ways you cannot prove triangles are congruent?

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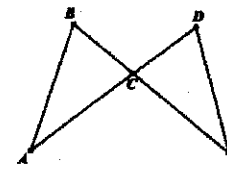
B. Complete the table.

Name ALL of the congruent parts given			
Name any extra congruence you found			
Give the reason for the extra congruence (For ex: Reflexive, Vertical angles...)			
Name the reason they are congruent (For ex: SAS, ASA...)			
Name the congruent Triangles			

C. What does a proof look like?

1.

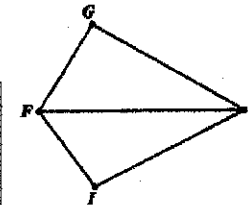
Given:  $\overline{BC} \cong \overline{DC}$ ;  $\overline{AC} \cong \overline{EC}$   
 Prove:  $\triangle BCA \cong \triangle DCE$



Statements	Reasons
1.	1. Given
2.	2. Vertical $\angle$ s Theorem
3. $\triangle BCA \cong \triangle DCE$	3.

2.

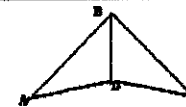
Given:  $\angle G \cong \angle I$ ;  $\overline{FH}$  bisects  $\angle GFI$   
 Prove:  $\triangle GFH \cong \triangle IFH$



Statements	Reasons
1. $\angle G \cong \angle I$ ; $\overline{FH}$ bisects $\angle GFI$	1.
2. $\angle GFH \cong \angle IFH$	2. Def. of _____
3.	3. Reflexive Prop.
4.	4.

D. Completing a proof

Given:  $\overline{AB} \cong \overline{CB}$   
 1.  $\angle ABD \cong \angle CBD$   
 Prove:  $\triangle ABD \cong \triangle CBD$

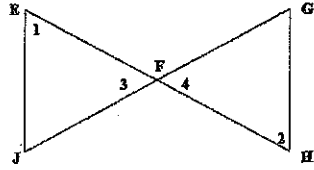


Statement	Reason
1.	1
2.	2
3.	3
4.	4

Given:  $\angle 1 \cong \angle 2$

2.  $\overline{EF} \cong \overline{HF}$

Prove:  $\triangle EFJ \cong \triangle HFG$

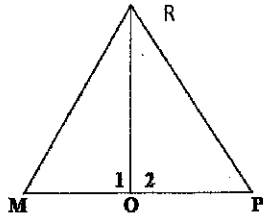


Statement	Reason
1.	1
2.	2
3.	3
4.	4

Given:  $\overline{RO} \perp \overline{MP}$

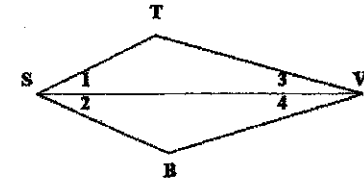
3.  $\overline{MO} \cong \overline{OP}$

Prove:  $\triangle MRO \cong \triangle PRO$



Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

4. Given:  $\overline{SV}$  bisects  $\angle TVB$  and  $\angle TSB$   
 Prove:  $\triangle STV \cong \triangle SBV$

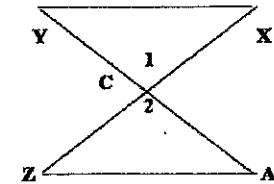


Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

Given: C is the midpoint of  $\overline{AY}$

5. C is the midpoint of  $\overline{ZX}$

Prove:  $\triangle ZCA \cong \triangle XCY$



Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.