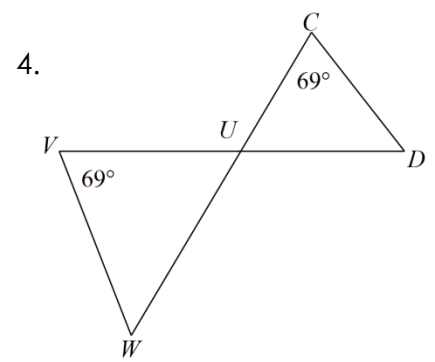
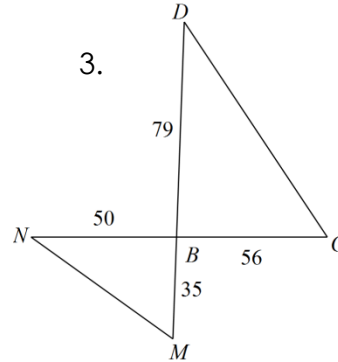
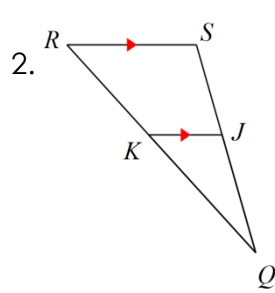
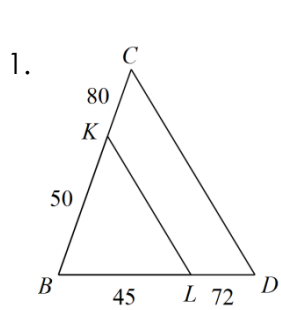


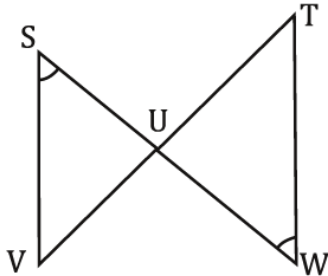
Geometry  
Proofs of Similar Triangles

Determine if the triangles in each pair are similar and state the property used to prove similarity.



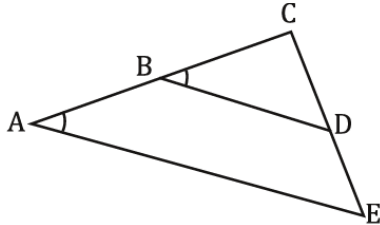
$\Delta BKL \sim \Delta$  \_\_\_\_\_ by \_\_\_\_\_     $\Delta RSQ \sim \Delta$  \_\_\_\_\_ by \_\_\_\_\_     $\Delta CBD \sim \Delta$  \_\_\_\_\_ by \_\_\_\_\_     $\Delta CUD \sim \Delta$  \_\_\_\_\_ by \_\_\_\_\_

5. Given:  $\angle S \cong \angle W$  Prove:  $\Delta SUV \sim \Delta WUT$



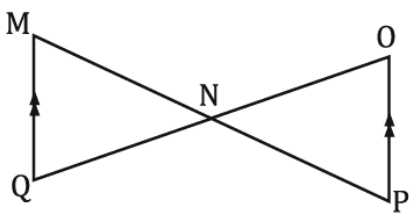
Statement	Reason
1.	1.
2.	2.
3.	3.

6. Given:  $\angle A \cong \angle B$  Prove:  $\Delta ACE \sim \Delta BCD$



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

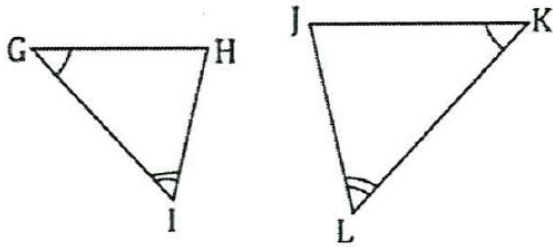
7. Given:  $\overline{MQ} \parallel \overline{OP}$  Prove:  $\Delta MNQ \sim \Delta PNO$



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

You Try These!!

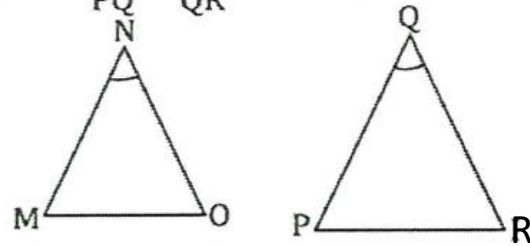
8. Given:  $\angle G \cong \angle K$ , and  $\angle I \cong \angle L$



Prove:  $\Delta GHI \sim \Delta KJL$

Statements	Reasons
1. $\angle G \cong \angle K$	1.
2.	2. Given
3. $\Delta GHI \sim \Delta KJL$	3.

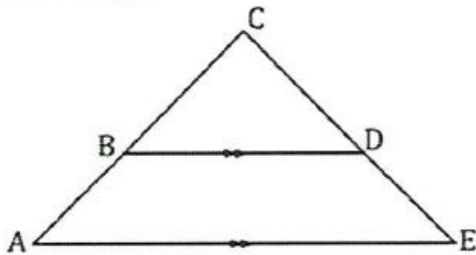
9. Given:  $\frac{MN}{PQ} = \frac{NO}{QR}$ ,  $\angle N \cong \angle Q$



Prove:  $\Delta MNO \sim \Delta PQR$

Statements	Reasons
1. $\frac{MN}{PQ} = \frac{NO}{QR}$	1.
2.	2. Given
3. $\Delta MNO \sim \Delta PQR$	3.

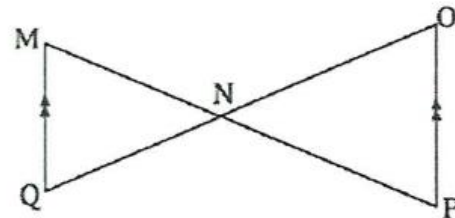
10. Given:  $\overline{AE} \parallel \overline{BD}$



Prove:  $\Delta ACE \sim \Delta BCD$

Statements	Reasons
1. $\overline{AE} \parallel \overline{BD}$	1.
2.	2. Corresponding Angles
3.	3.
4.	4. AA

11. Given:  $\overline{MQ} \parallel \overline{OP}$



Prove:  $\Delta MQN \sim \Delta OPN$

Statements	Reasons
1. $\overline{MQ} \parallel \overline{OP}$	1.
2. $\angle QMN \cong \angle OPN$	2.
3.	3. Alternate Interior
4. $\Delta MQN \sim \Delta OPN$	4.