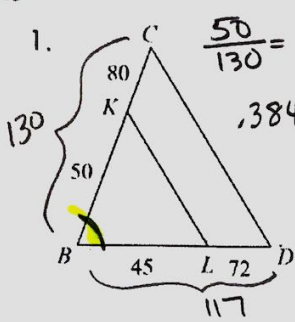
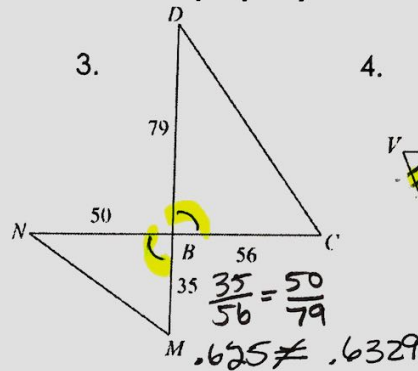
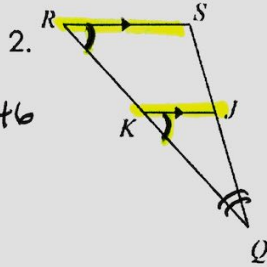


Determine if the triangles in each pair are similar and state the property used to prove similarity.



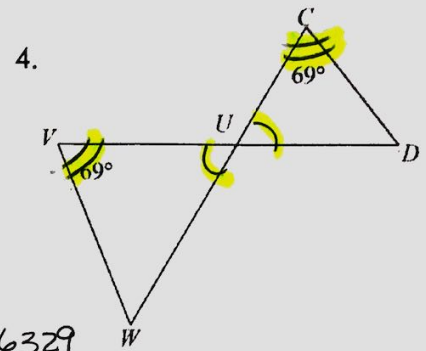
$$\frac{50}{130} = \frac{45}{117}$$

$$.3846 = .3846$$



$$\frac{35}{56} = \frac{50}{79}$$

$$.625 \neq .6329$$



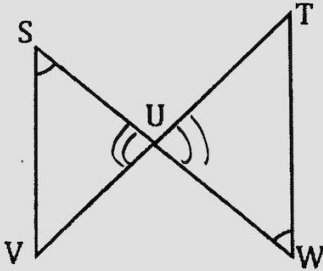
$\triangle BKL \sim \triangle BCD$  by SAS

$\triangle RSQ \sim \triangle KJQ$  by AA

Not Similar  
 $\triangle CBD \sim \triangle$  by     

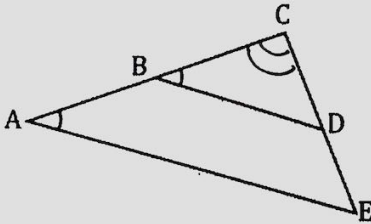
$\triangle CUD \sim \triangle VUW$  by AA

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



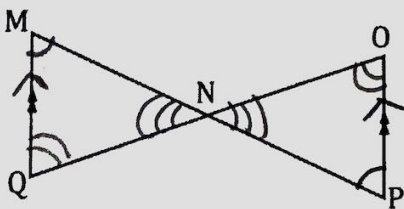
Statement	Reason
1. $\angle S \cong \angle W$	1. Given
2. $\angle SUV \cong \angle WUT$	2. Vertical angles $\cong$
3. $\triangle SUV \sim \triangle WUT$	3. AA

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



Statement	Reason
1. $\angle A \cong \angle B$	1. Given
2. $\angle BCD \cong \angle ACE$	2. Reflexive Property
3. $\triangle ACE \sim \triangle BCD$	3. AA

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

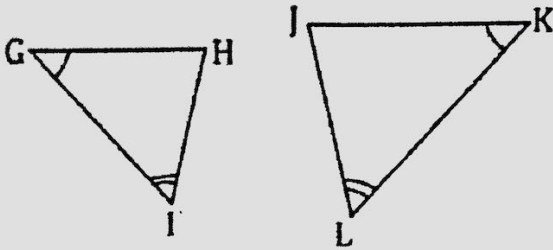


Statement	Reason
1. $\overline{MQ} \parallel \overline{OP}$	1. Given
2. $\angle M \cong \angle P$	2. Alternate Interior Angles $\cong$
3. $\angle Q \cong \angle O$	3. Alternate Interior Angles $\cong$
4. $\triangle MNQ \sim \triangle PNO$	4. AA

\* Step 2 or 3 could have been replaced with  $\angle MNQ \cong \angle PNO$  by Vertical Angles  $\cong$

You Try These!!

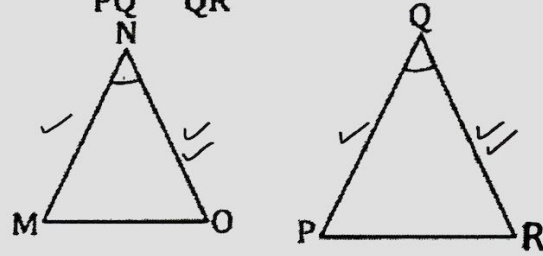
8. Given:  $\angle G \cong \angle K$ , and  $\angle I \cong \angle L$



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

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

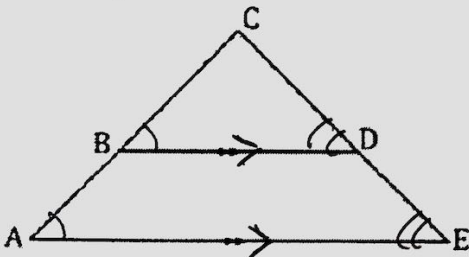
9. Given:  $\frac{MN}{PQ} = \frac{NO}{QR}$ ,  $\angle N \cong \angle Q$



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

Statements	Reasons
1. $\frac{MN}{PQ} = \frac{NO}{QR}$	1. Given
2. $\angle N \cong \angle Q$	2. Given
3. $\Delta MNO \sim \Delta PQR$	3. SAS ~

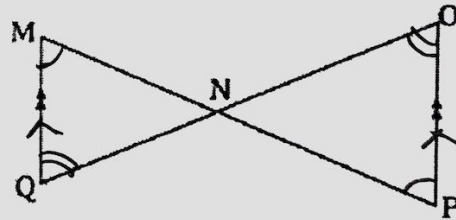
10. Given:  $\overline{AE} \parallel \overline{BD}$



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

Statements	Reasons
1. $\overline{AE} \parallel \overline{BD}$	1. Given
2. $\angle CAE \cong \angle CBD$	2. Corresponding Angles
3. $\angle CEA \cong \angle CDB$	3. Corresponding Angles
4. $\Delta ACE \sim \Delta BCD$	4. AA ~

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



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

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

\* Step 2 or 3 could have been replaced with  $\angle BCD \cong \angle ACE$  by reflexive property.