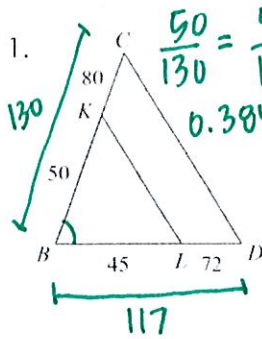
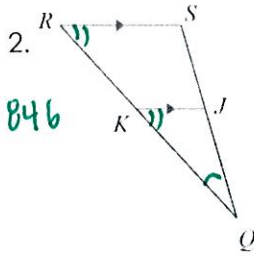


Determine if the triangles in each pair are similar and state the property used to prove similarity.

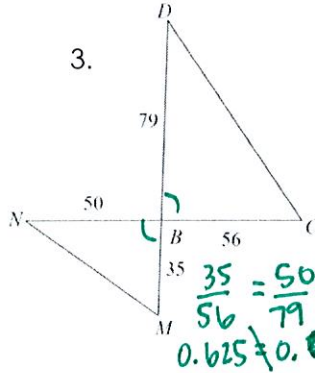


$\frac{50}{130} = \frac{45}{117}$   
 $0.3846 = 0.3846$  ✓

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

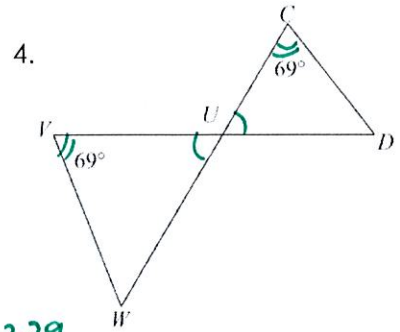


$\triangle RSQ \sim \triangle KJQ$  by AA



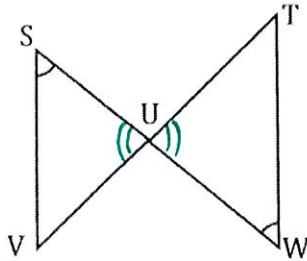
$\frac{35}{56} = \frac{50}{79}$   
 $0.625 \neq 0.6329$

$\triangle CBD \sim \triangle$  \_\_\_\_\_ by \_\_\_\_\_  
**NOT SIMILAR**



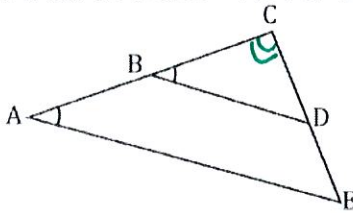
$\triangle CUD \sim \triangle VWU$  by AA

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



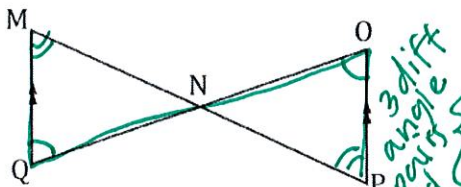
Statement	Reason
1. $\angle S \cong \angle W$	1. Given
2. $\angle SVU \cong \angle WUT$	2. vertical angles $\cong$
3. $\triangle SUV \sim \triangle WUT$	3. AA

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:  $\triangle MNQ \sim \triangle PNO$

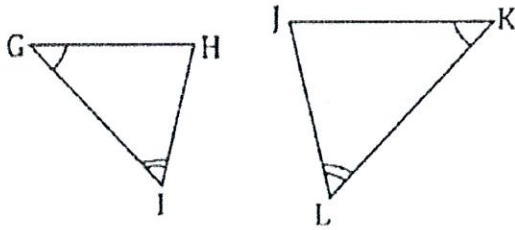


3rd diff angle  
 could use vertical angles

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

You Try These!!

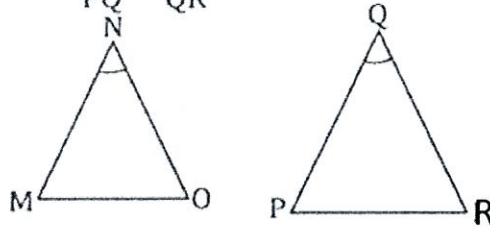
8. Given:  $\angle G \cong \angle K$ , and  $\angle I \cong \angle L$



Prove:  $\triangle GHI \sim \triangle KJL$

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

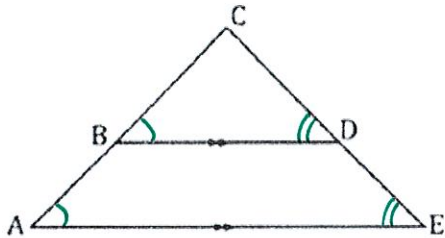
9. Given:  $\frac{MN}{PQ} = \frac{NO}{QR}$ ,  $\angle N \cong \angle Q$



Prove:  $\triangle MNO \sim \triangle PQR$

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

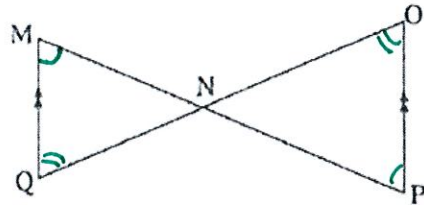
10. Given:  $\overline{AE} \parallel \overline{BD}$



Prove:  $\triangle ACE \sim \triangle BCD$

Statements	Reasons
1. $\overline{AE} \parallel \overline{BD}$	1. Given
2. $\angle A \cong \angle CBD$	2. Corresponding Angles
3. $\angle E \cong \angle BDC$	3. Corresponding Angles
4. $\triangle ACE \sim \triangle BCD$	4. AA

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



Prove:  $\triangle MQN \sim \triangle OPN$

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

answers vary! you could do the other pair of corresponding angles or the vertical angles. reflexive angles.