

Name Schlansky  
Mr. Schlansky

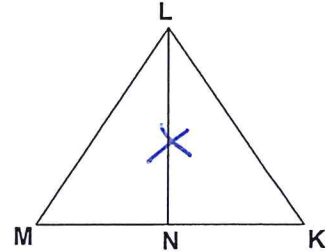
Date \_\_\_\_\_  
Geometry

## Reflexive Property and Vertical Angles

List one statement and reason that leads towards proving the triangles are congruent/similar

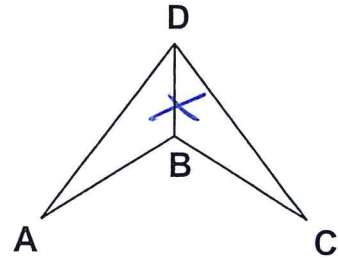
1. Given: None  
Prove:  $\triangle LNM \cong \triangle LNK$

$\overline{LN} \cong \overline{LN}$  Reflexive Property



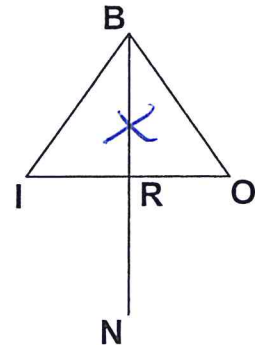
2. Given: None  
Prove:  $\triangle DBA \cong \triangle DBC$

$\overline{DB} \cong \overline{DB}$  Reflexive Property



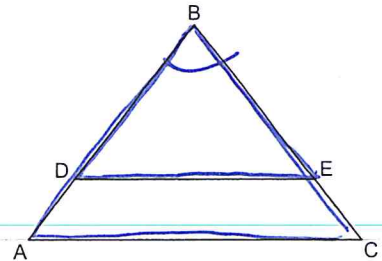
3. Given: None  
Prove:  $\triangle BRI \cong \triangle BRO$

$\overline{BR} \cong \overline{BR}$  Reflexive Property



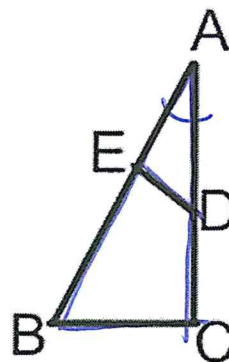
4. Given: None  
Prove:  $\triangle BDE \sim \triangle BAC$

$\angle DBE \cong \angle DBE$  Reflexive Property



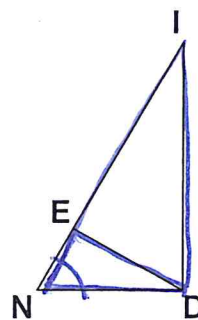
5. Given: None  
 Prove:  $\triangle ABC \sim \triangle ADE$

$\angle DAE \cong \angle DAE$  Reflexive Property



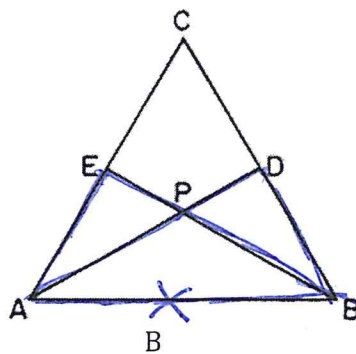
6. Given: None  
 Prove:  $\triangle END \sim \triangle DNI$

$\angle END \cong \angle END$  Reflexive Property



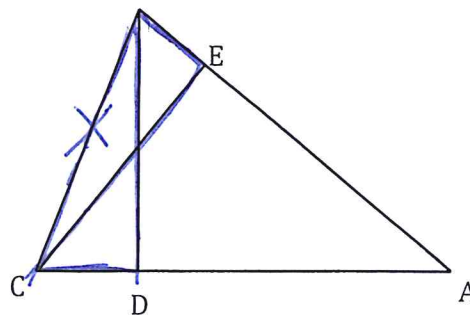
7. Given: None  
 Prove:  $\triangle AEB \cong \triangle BDA$

$\overline{AB} \cong \overline{AB}$  Reflexive Property



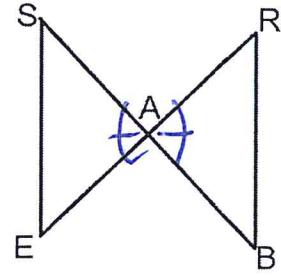
8. Given: None  
 Prove:  $\triangle BEC \cong \triangle CDB$

$\overline{CB} \cong \overline{CB}$  Reflexive Property



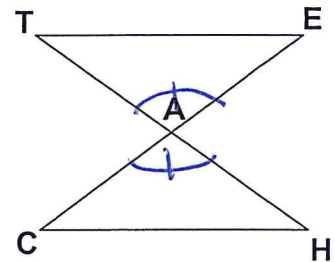
9. Given: None  
 Prove:  $\triangle SAE \cong \triangle RAB$

$\angle SAE \cong \angle RAB$  vertical angles are congruent



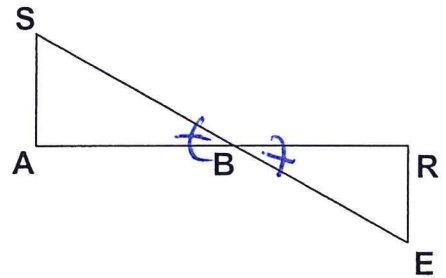
10. Given: None  
 Prove:  $\triangle TAE \cong \triangle CAH$

$\angle TAE \cong \angle CAH$  vertical angles are congruent



11. Given: None  
 Prove:  $\triangle SBA \cong \triangle EBR$

$\angle SBA \cong \angle EBR$  vertical angles are congruent



12. Given: None  
 Prove:  $\triangle BAF \cong \triangle DAE$

$\angle BAF \cong \angle DAE$  vertical angles are congruent

