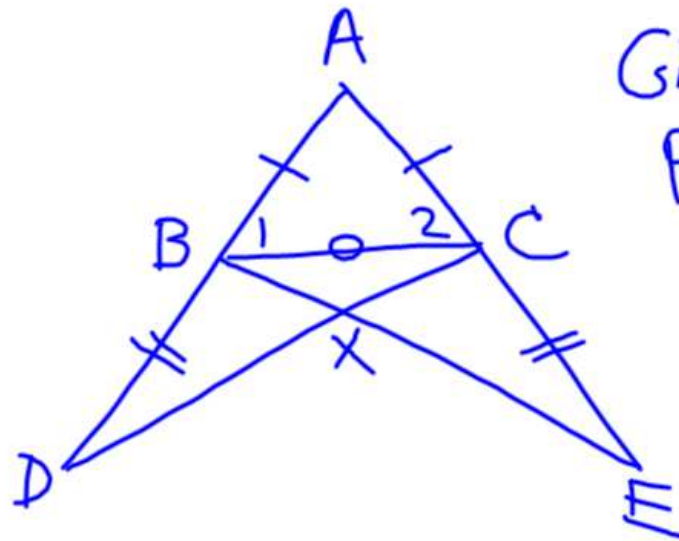




Given: Diagram

Prove: $\angle 1 \cong \angle 2$

$$1. \overline{AB} \cong \overline{AC}$$

$$2. \overline{BD} \cong \overline{CE}$$

$$3. \overline{AD} \cong \overline{AE}$$

$$4. \angle A \cong \angle A$$

$$5. \triangle ADC \cong \triangle AEB$$

$$6. \overline{CD} \cong \overline{BE}$$

$$7. \overline{BC} \cong \overline{BC}$$

$$8. \triangle BCD \cong \triangle CBE$$

$$9. \angle DBC \cong \angle ECB$$

$$10. \angle DBC \text{ supp. } \angle 1, \\ \angle ECB \text{ supp. } \angle 2$$

$$11. \angle 1 \cong \angle 2$$

$$1. G$$

$$2. G$$

$$3. \text{Add. Prop.}$$

$$4. \text{Reflex.}$$

$$5. SAS(3,4,1)$$

$$6. CPCTC$$

$$7. \text{Reflex.}$$

$$8. SSS(7,6,2)$$

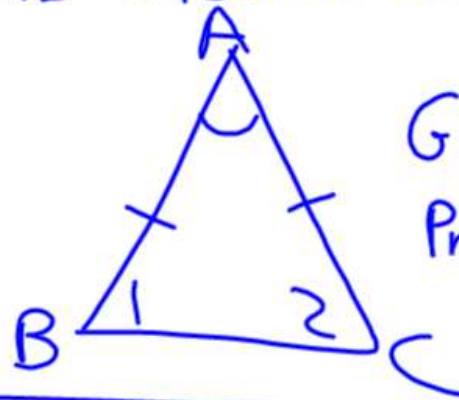
$$9. CPCTC$$

$$10. \text{Diag.}$$

$$11. \text{Supps. of } \cong \angle \text{ s are } \cong$$



"Modern"
Pons Asinorum

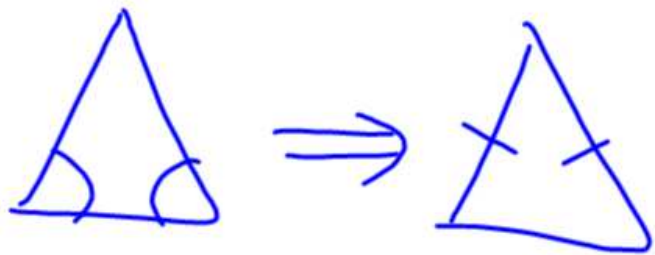
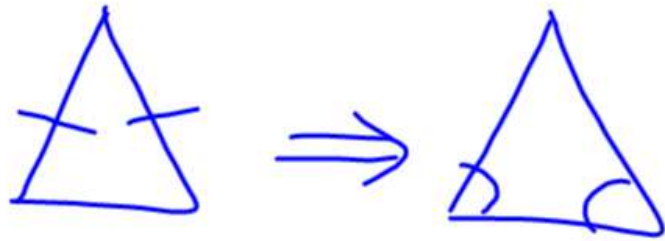


Given: $\overline{AB} \cong \overline{AC}$

Prove: $\angle 1 \cong \angle 2$

1. $\overline{AB} \cong \overline{AC}$	1. G
2. $\angle A \cong \angle A$	2. Reflexive
3. $\triangle ABC \cong \triangle ACB$	3. SAS (1, 2, 1)
4. $\angle 1 \cong \angle 2$	4. CPCTC

□



Proof of converse :

1. $\angle 1 \cong \angle 2$	1. G
2. $\overline{BC} \cong \overline{BC}$	2. Refl.
3. $\triangle ABC \cong \triangle$ ACB	3. ASA (1, 2, 1)
4. $\overline{AB} \cong \overline{AC}$	4. CPCTC
□	