

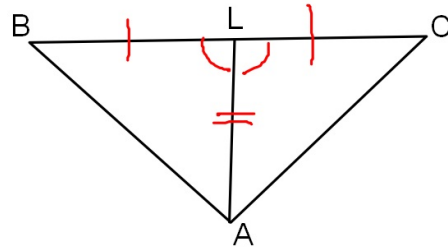
Geometry: Bellwork Friday, January 10, 2014

1. Write a proof.

Given: L is the midpoint of $\overline{BC}$ ✓

$$\angle ALB \cong \angle ALC$$

Prove: $\angle C \cong \angle B$

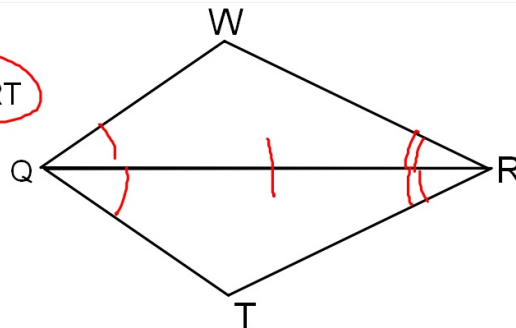


Statement	Reason
1. L is the midpoint of $\overline{BC}$ $\angle ALB \cong \angle ALC$	1. Given
2. $\overline{AL} \cong \overline{AL}$	2. Reflexive Prop
3. $\overline{BL} \cong \overline{CL}$	3. def of mdpt
4. $\triangle ALB \cong \triangle ALC$	4. SAS
5. $\angle C \cong \angle B$	5. CPCTC

2. Write a proof.

Given: $\overline{QR}$ bisects both $\angle WQT$ ✓ and $\angle WRT$

Prove: $\overline{QW} \cong \overline{QT}$



Statement	Reason
1. $\overline{QR}$ bisects both $\angle WQT$ and $\angle WRT$	1. Given
2. $\angle WQR \cong \angle TQR$	2. def of bisect
3. $\overline{QR} \cong \overline{QR}$	3. Reflexive
4. $\angle WRQ \cong \angle TRQ$	4. def of bisect
5. $\triangle WQR \cong \triangle TRQ$	5. ASA
6. $\overline{QW} \cong \overline{QT}$	6. CPCTC