

Geometry

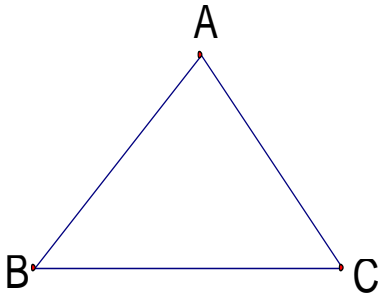
5.3 Indirect Proof

Name _____

Date _____ Hour _____

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

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

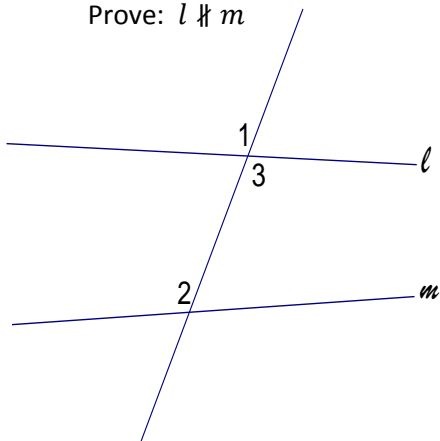


Statements

Reasons

2) Given: $\angle 1 \cong \angle 2$

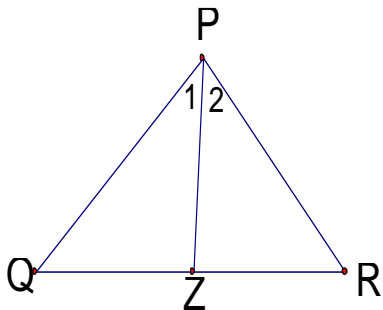
Prove: $l \nparallel m$



3) Given: $\overline{PQ} \cong \overline{PR}$

$\angle 1 \cong \angle 2$

Prove: \overline{PZ} is not a median of $\triangle PQR$



4) On reverse, research the use of indirect proofs in the “real” world.