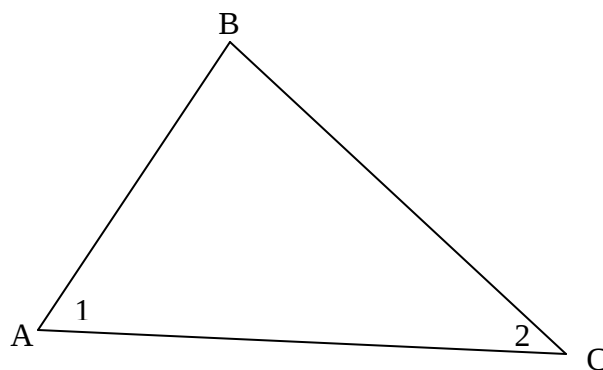


Name _____ Per. _____ Date _____
Honors Geometry Indirect Proof Worksheet

1. Write an indirect proof.

Given: $m\angle 1 \neq m\angle 2$

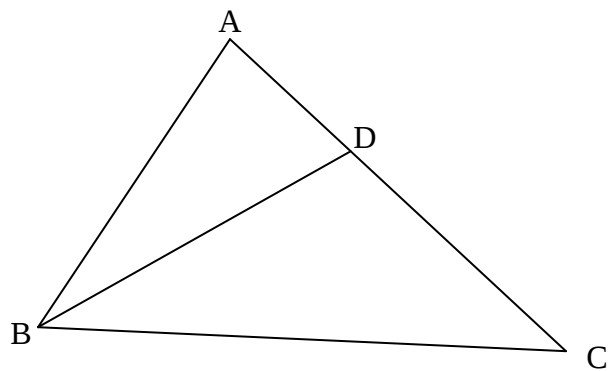
Prove: $\triangle ABC$ is not isosceles triangle
with vertex B.



2. Write an indirect proof.

Given: $\overline{BD}$ bisects $\angle ABC$
 $\angle BDA$ is an acute $\angle$

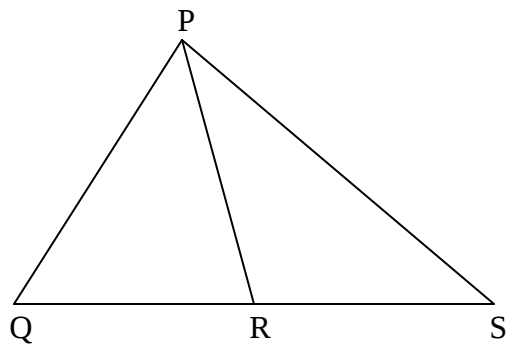
Prove: $\overline{AB}$ is not $\cong$ to $\overline{BC}$



3. Write an indirect proof.

Given: $\overline{PR}$ is a median of $\triangle PQS$
 $\triangle PQS$ is scalene

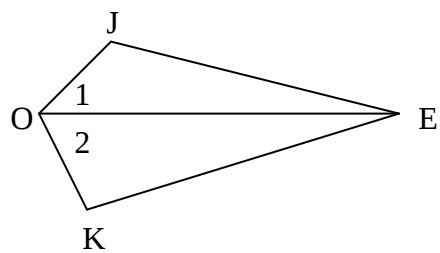
Prove: $\overline{PR}$ is not an altitude of $\triangle PQS$



4. Write an indirect proof.

Given: $\overline{OJ} \cong \overline{OK}$
 $\overline{JE} \not\cong \overline{KE}$

Prove: $\angle 1 \not\cong \angle 2$



5. Write an indirect proof.

Given: $AT = 4$, $TB = 4$, $CT = 3$
 $\overline{CT}$ is an altitude of $\triangle ACB$

Prove: $\angle ACB$ is not a rt. $\angle$

