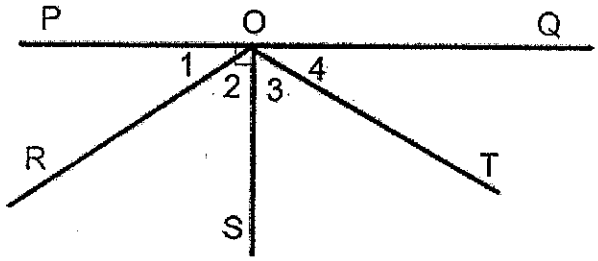
Geometry Honors
2-6 Practice Proof

Name Key

Given: $\overline{OS} \perp \overline{PQ}$; $\angle 1 \cong \angle 3$
Prove: $\angle 2 \cong \angle 4$



Statement	Reason
1. $\overrightarrow{OS} \perp \overrightarrow{PQ}$	1. Given
2. $\angle 1 + \angle 2$ comp.	2. Ext. sides of 2 adj. acute $\angle^s$
$\angle 3 + \angle 4$ comp.	$\perp \rightarrow \angle^{'s}$ comp.
3. $\angle 1 \cong \angle 3$	3. Given
4. $\angle 2 \cong \angle 4$	4. 2 $\angle^s$ comp. of $\cong \angle^s$ $\cong$