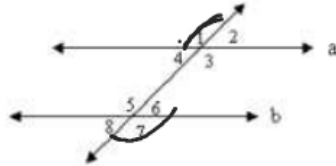


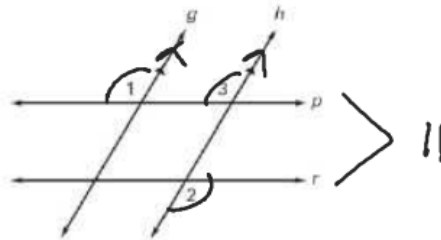
## Proving Parallel Lines

Given:  $m\angle 1 = m\angle 7$   
 Prove:  $\angle 3 \cong \angle 5$



Given:  $g \parallel h$ ,  $\angle 1 \cong \angle 2$

Prove:  $p \parallel r$



Statement	Reason
1) $g \parallel h$ ; $\angle 1 \cong \angle 2$	1) Given
2) $\angle 1 \cong \angle 3$	2) Corresponding $\angle$ 's $\cong$ .
3) $\angle 2 \cong \angle 3$	3) Substitution prop
4) $p \parallel r$	4) If alternate Ext $\angle$ 's are $\cong$ then lines are $\parallel$ .