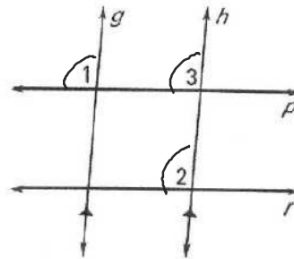


3. GIVEN: $g \parallel h, \angle 1 \cong \angle 2$

PROVE: $p \parallel r$

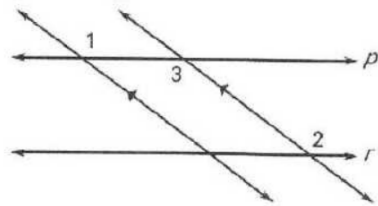
Statements	Reasons
1. $g \parallel h, \angle 1 \cong \angle 2$	1. Given
2. $\angle 1 \cong \angle 3$	2. Corresponding \angle 's
3. $\angle 2 \cong \angle 3$	3. Substitution prop
4. $p \parallel r$	4. If corresponding \angle 's are \cong then lines are \parallel .



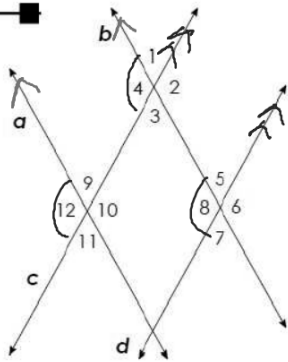
10. **GIVEN:** $n \parallel m$, $\angle 1 \cong \angle 2$

PROVE: $p \parallel r$

Statements _____ Reasons



PROOF I

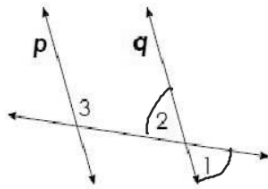


Given: $c \parallel d$, $\angle 12 \cong \angle 8$

Prove: $a \parallel b$

Statement	Reason
1) $c \parallel d$ $\angle 12 \cong \angle 8$	1) Given
2) $\angle 8 \cong \angle 4$	2) Corresponding \angle 's
3) $\angle 4 \cong \angle 12$	3) Substitution
4) $a \parallel b$	4) If corresponding \angle 's are \cong lines are \parallel .

PROOF 4

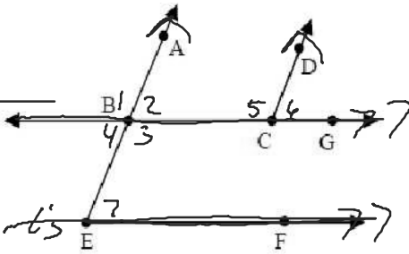


Given: $\angle 1$ and $\angle 3$ are supplementary

Prove: $p \parallel q$

Statement	Reason
1) $\angle 1 + \angle 3$ are Supp	1) Given
2) $m\angle 1 + m\angle 3 = 180$	2) Def Supp \angle 's
3) $\angle 1 \cong \angle 2$	3) Vertical \angle 's
4) $m\angle 2 + m\angle 3 = 180$	4) Substitution
5) $\angle 2 + \angle 3$ are Supp	5) Def of Supp \angle 's
6) $p \parallel q$	6) If consecutive Interior \angle 's are Supp, then lines are \parallel .

$m\angle 5 + m\angle 7$
 Given: $m\angle BCD + m\angle BEF = 180^\circ$, $\overline{AB} \parallel \overline{DC}$
 Prove: $\overline{BC} \parallel \overline{EF}$

Statement	Reason
	
1) Given	
2) $\angle 5 \cong \angle 3$	2) Alt Interior \angle 's
3) $m\angle 3 + m\angle 7 = 180$	3) Substitution
4) $\angle 3 + \angle 7$ are Supp	4) Def Supp \angle 's