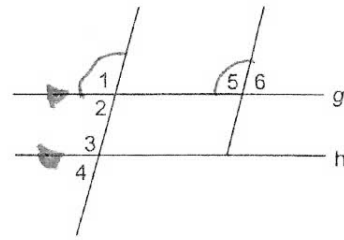


4. Given: $g \parallel h$; $\angle 1 \cong \angle 5$

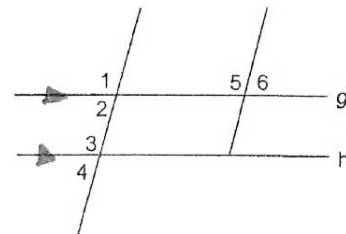
Prove: $\angle 5 \cong \angle 3$



Statements	Reasons
$g \parallel h$, $\angle 1 \cong \angle 5$	Given
$\angle 1 \cong \angle 3$	Corr \angle Post
$\angle 5 \cong \angle 3$	Transitive \cong

5. Given: $g \parallel h$; $\angle 6$ & $\angle 3$ are supplementary

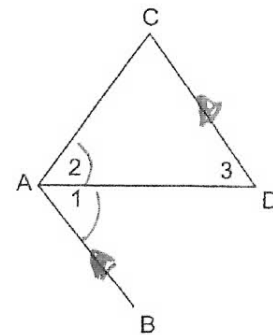
Prove: $\angle 6 \cong \angle 2$



Statements	Reasons
$g \parallel h$; $\angle 6 + \angle 3$ are Supp.	Given
$\angle 2 + \angle 3$ are Supp	Consec Int \angle Thm
$\angle 6 \cong \angle 2$	\cong Supplement Thm

6. Given: $\overline{CD} \parallel \overline{AB}$; $\angle 2 \cong \angle 1$

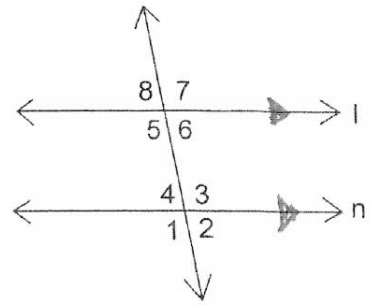
Prove: $\angle 2 \cong \angle 3$



Statements	Reasons
$\overline{CD} \parallel \overline{AB}$; $\angle 2 \cong \angle 1$	Given
$\angle 1 \cong \angle 3$	Alt Int \angle Thm
$\angle 2 \cong \angle 3$	Transitive \cong

7. Given: $l \parallel n$

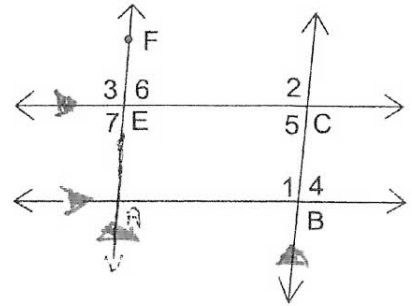
Prove: $m\angle 2 + m\angle 7 = 180^\circ$



Statements	Reasons
$l \parallel n$	Given
$\angle 4$ & $\angle 5$ are supplementary	Consec Int \angle Thm
$m\angle 4 + m\angle 5 = 180$	Def of Supple \angle 's
$\angle 5 \cong \angle 7, \angle 2 \cong \angle 4$	V A C T
$m\angle 5 = m\angle 7, m\angle 2 = m\angle 4$	Def of \cong
$m\angle 2 + m\angle 7 = 180$	Substitution

8. Given: $\overline{AB} \parallel \overline{EC}; \overline{BC} \parallel \overline{EF}$

Prove: $\angle 7 \cong \angle 4$

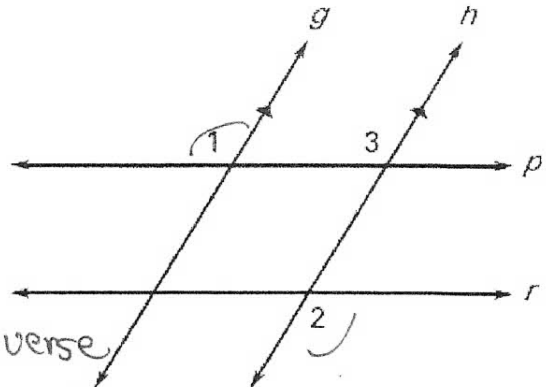


Statements	Reasons
$\overline{AB} \parallel \overline{EC}; \overline{BC} \parallel \overline{EF}$	Given
$\angle 4 \cong \angle 5$	Alt int \angle Thm
$\angle 5 \cong \angle 7$	Corr \angle Post
$\angle 7 \cong \angle 4$	Transitive \cong

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

PROVE: $p \parallel r$

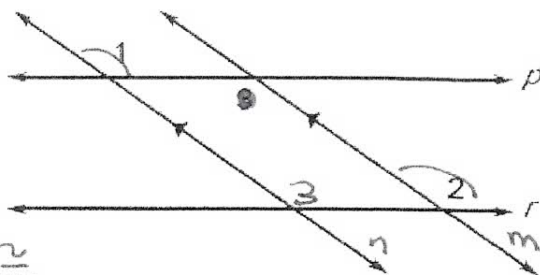
Statements	Reasons
$g \parallel h, \angle 1 \cong \angle 2$	Given
$\angle 1 \cong \angle 3$	Corr \angle Post
$\angle 2 \cong \angle 3$	Transitive
$p \parallel r$	Alt Ext \angle Converse



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

PROVE: $p \parallel r$

Statements	Reasons
$n \parallel m, \angle 1 \cong \angle 2$	Given
$\angle 2 \cong \angle 3$	Corr \angle Post
$\angle 1 \cong \angle 3$	Transitive \cong
$p \parallel r$	Corr \angle Converse



11. GIVEN: $g \parallel h, \angle 1$ and $\angle 4$ are supplementary

PROVE: $p \parallel r$

Statements	Reasons
$g \parallel h, \angle 1$ and $\angle 4$ are supp	Given
$\angle 1 \cong \angle 2$	Alt Int \angle Thm
$\angle 4$ and $\angle 2$ are supp.	substitution
$p \parallel r$	Consec int \angle converse

