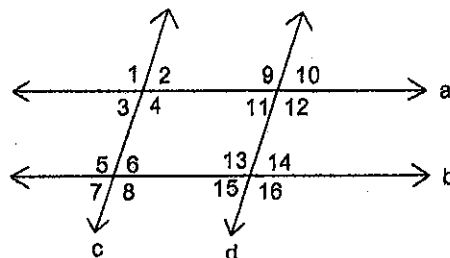


Geometry Unit: Parallel Lines

Lesson 3.3 PROOFS Practice

1. Given:  $a \parallel b$ ;  $c \parallel d$

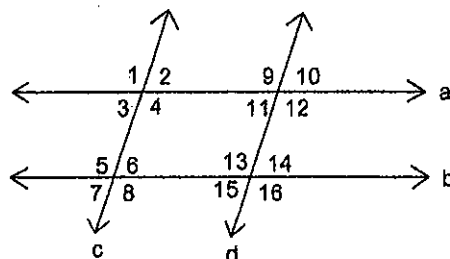
Prove:  $\angle 1 \cong \angle 13$



Statements	Reasons
1. $a \parallel b$ ; $c \parallel d$	1.
2. $\angle 1 \cong \angle 12$	2.
3. $\angle 12 \cong \angle 13$	3.
4. $\angle 1 \cong \angle 13$	4.

2. Given:  $a \parallel b$

Prove:  $m\angle 9 + m\angle 14 = 180^\circ$

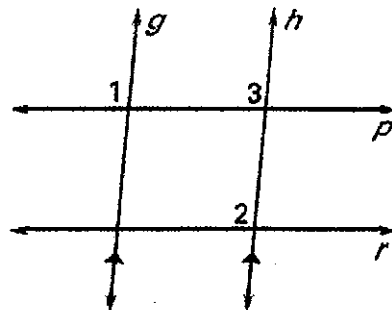


Statements	Reasons
1. $a \parallel b$	1.
2. $m\angle 9 + m\angle 11 = 180^\circ$	2.
3. $m\angle 11 = m\angle 14$	3.
4. $m\angle 9 + m\angle 14 = 180^\circ$	4.

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

PROVE:  $p \parallel r$

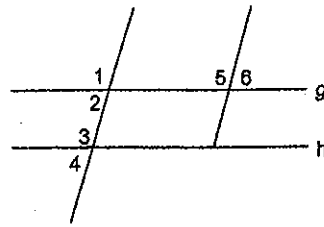
Statements	Reasons
1. $g \parallel h$ , $\angle 1 \cong \angle 2$	1.
2. $\angle 1 \cong \angle 3$	2.
3. $\angle 2 \cong \angle 3$	3.
4. $p \parallel r$	4.



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

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

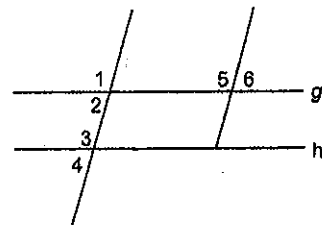
Statements \_\_\_\_\_ Reasons



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

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

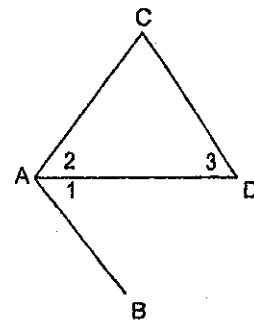
Statements \_\_\_\_\_ Reasons



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

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

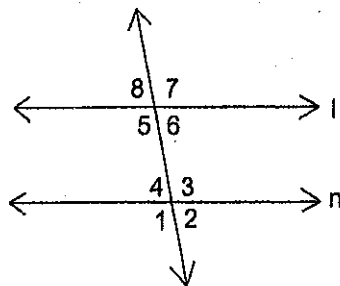
Statements \_\_\_\_\_ Reasons



7. Given:  $l \parallel n$

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

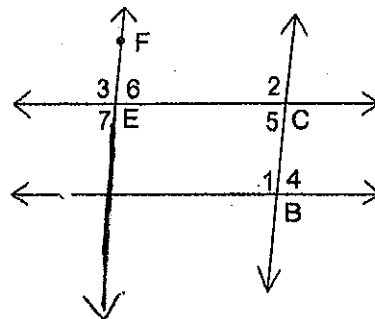
Statements \_\_\_\_\_ Reasons



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

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

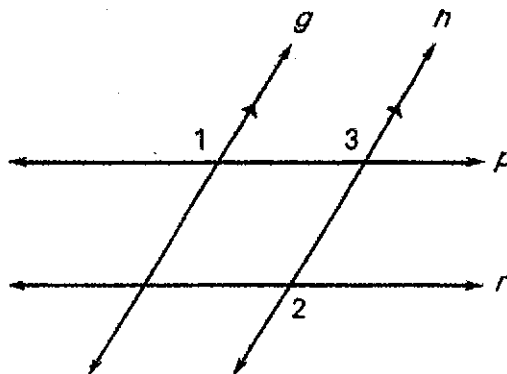
Statements \_\_\_\_\_ Reasons



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

PROVE:  $p \parallel r$

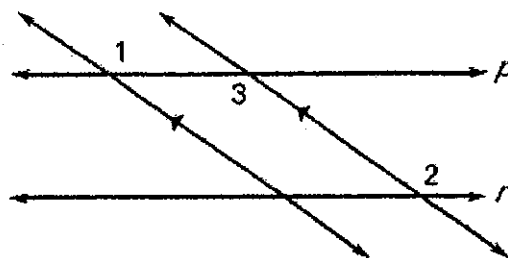
Statements \_\_\_\_\_ Reasons



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

**PROVE:**  $p \parallel r$

Statements \_\_\_\_\_ Reasons



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

**PROVE:**  $p \parallel r$

Statements \_\_\_\_\_ Reasons

