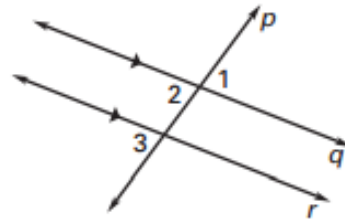
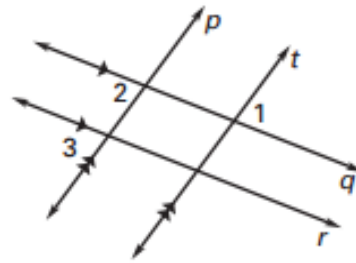


Complete each two-column proof.



1. Given: $q \parallel r$
 Prove: $\angle 1 \cong \angle 3$

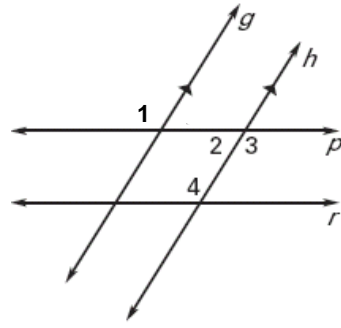
Statements	Reasons
1. $q \parallel r$	1.
2. $\angle 1 \cong \angle 2$	2.
3. $\angle 2 \cong \angle 3$	3.
4. $\angle 1 \cong \angle 3$	4.



2. Given: $q \parallel r$, $p \parallel t$
 Prove: $\angle 1 \cong \angle 3$

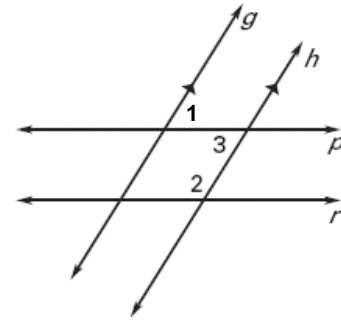
Statements	Reasons
1. $p \parallel t$	1.
2. $\angle 1 \cong \angle 2$	2.
3. $q \parallel r$	3.
4. $\angle 2 \cong \angle 3$	4.
5. $\angle 1 \cong \angle 3$	5.

3. Given: $g \parallel h, m\angle 1 = 122^\circ, m\angle 4 = 122^\circ$
 Prove: $p \parallel r$



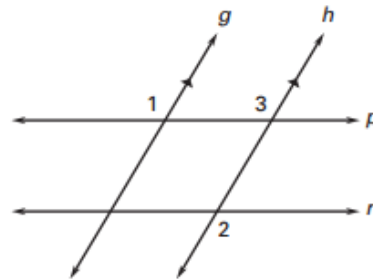
Statements	Reasons
1. $g \parallel h, m\angle 1 = 122^\circ$	1.
2. $\angle 1 \cong \angle 3$	2.
3. $m\angle 1 = m\angle 3$	3.
4. $m\angle 3 = 122^\circ$	4.
5. $m\angle 4 = 122^\circ$	5.
6. $m\angle 3 = m\angle 4$	6.
7. $\angle 3 \cong \angle 4$	7.
8. $p \parallel r$	8.

4. Given: $g \parallel h$, $\angle 1$ and $\angle 2$ are supplementary
 Prove: $p \parallel r$



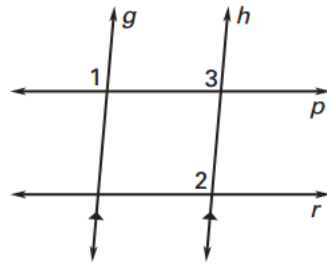
Statements	Reasons
1. $g \parallel h$, $\angle 1$ and $\angle 2$ are supplementary	1.
2. $\angle 1 \cong \angle 3$	2.
3. $m\angle 1 = m\angle 3$	3.
4. $m\angle 1 + m\angle 2 = 180^\circ$	4.
5. $m\angle 3 + m\angle 2 = 180^\circ$	5.
6. $p \parallel r$	6.

5. Given: $g \parallel h$, $\angle 1 \cong \angle 2$
 Prove: $p \parallel r$



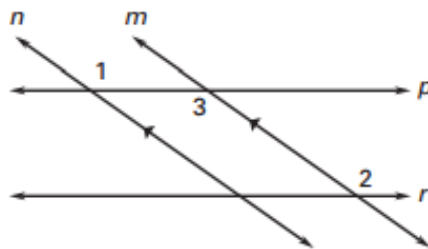
Statements	Reasons
1. $g \parallel h$	1.
2. $\angle 1 \cong \angle 3$	2.
3. $\angle 1 \cong \angle 2$	3.
4. $\angle 2 \cong \angle 3$	4.
5. $p \parallel r$	5.

6. Given: $g \parallel h, \angle 1 \cong \angle 2$
 Prove: $p \parallel r$



Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

7. Given: $n \parallel m, \angle 1 \cong \angle 2$
 Prove: $p \parallel r$



Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.