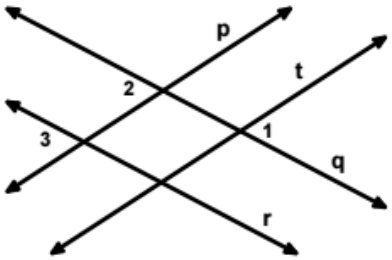
3

Given: $p \parallel t$ and $q \parallel r$

Prove: $\angle 1 \cong \angle 3$

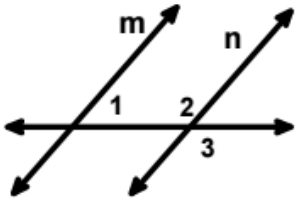


Statements	Reasons
1. $p \parallel t$	1. _____
2. $\angle 1 \cong \angle 2$	2. _____
3. $q \parallel r$	3. _____
4. $\angle 2 \cong \angle 3$	4. _____
5. $\angle 1 \cong \angle 3$	5. _____

5

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

Prove: $m \parallel n$

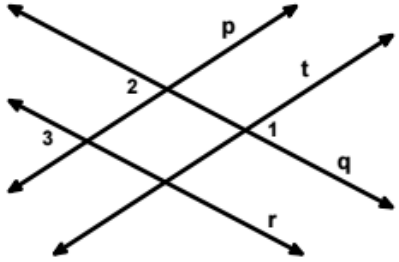


Statements	Reasons
1. $\angle 1$ and $\angle 3$ are supplementary	1. _____
2. $m\angle 1 + m\angle 3 = 180°$	2. _____
3. $\angle 2 \cong \angle 3$	3. _____
4. $m\angle 2 = m\angle 3$	4. _____
5. $m\angle 1 + m\angle 2 = 180°$	5. _____
6. $\angle 1$ and $\angle 2$ are supplementary	6. _____
7. $m \parallel n$	7. _____

3

Given: $p \parallel t$ and $q \parallel r$

Prove: $\angle 1 \cong \angle 3$



6

Given: $g \parallel h$; $m\angle 1 = 122°$;

$m\angle 4 = 122°$

Prove: $p \parallel r$