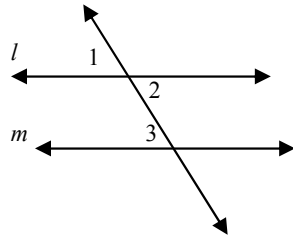


Parallel Lines Proof Worksheet

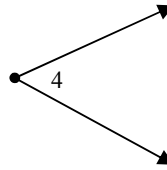
Name _____

Write a 2 column or flow proof on your own paper.

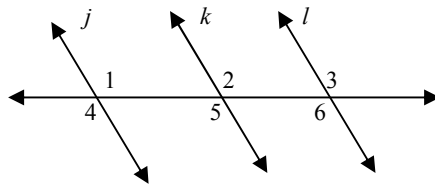
1. Given: $l \parallel m$; $\angle 2 \cong \angle 4$
Prove: $\angle 4 \cong \angle 3$



2. Given: $l \parallel m$; $\angle 1 \cong \angle 4$
Prove: $\angle 3 \cong \angle 4$

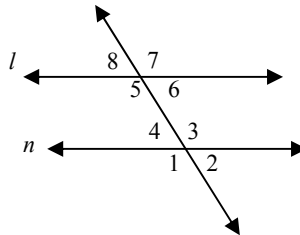


3. Given: $j \parallel k$, $k \parallel l$
Prove: $\angle 1 \cong \angle 3$



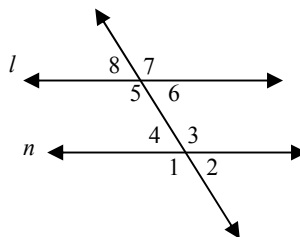
4. Given: $j \parallel k$, $k \parallel l$
Prove: $\angle 1 \cong \angle 6$

5. Given: $l \parallel n$
Prove: $m\angle 3 + m\angle 6 = 180^\circ$



6. Given: $l \parallel n$
Prove: $m\angle 2 + m\angle 7 = 180^\circ$

7. Given: $m\angle 1 = 101^\circ$, $m\angle 5 = 101^\circ$
Prove: $l \parallel n$



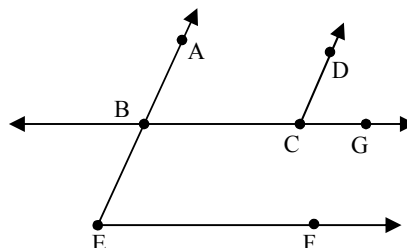
8. Given: $m\angle 3 = 105^\circ$, $m\angle 6 = 75^\circ$
Prove: $l \parallel n$

Use for #7 – #10

9. Given: $\angle 8 \cong \angle 2$
Prove: $l \parallel n$

10. Given: $\angle 7$ is supplementary to $\angle 2$
Prove: $l \parallel n$

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



12. Given: $\overline{BC} \parallel \overline{EF}$, $\angle BEF \cong \angle DCG$
Prove: $\overline{AB} \parallel \overline{DC}$