

Chapter 3- Practice

Proving more lines Parallel

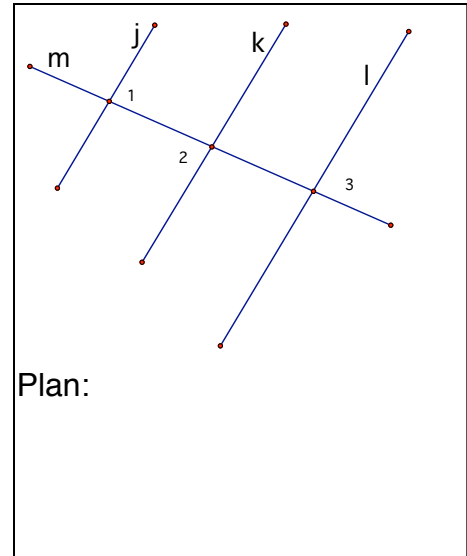
Goals

Become more competent at proving lines parallel.

1. Given: $\angle 1 \cong \angle 2$, $\angle 2 \cong \angle 3$

Prove: $j \parallel l$

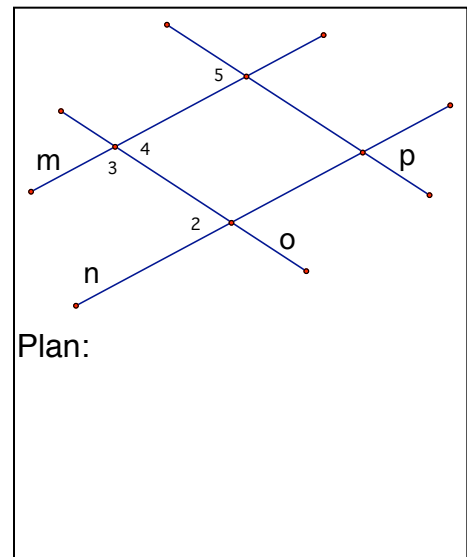
Proof:



2. Given: $\angle 2$ and $\angle 3$ are supplementary, $\angle 2 \cong \angle 5$

Prove: $o \parallel p$

Proof:



Name _____

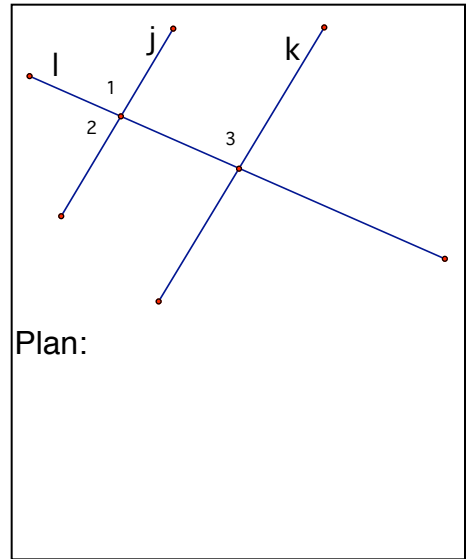
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3. Given: $\angle 1 \cong \angle 2$, $\angle 3$ is a right angle

Prove: $j \parallel k$

Proof:



Name _____

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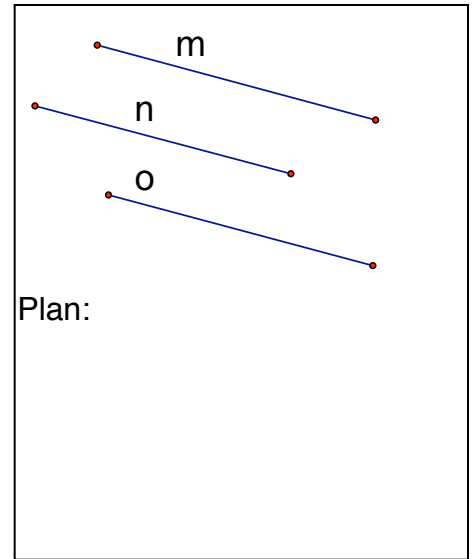
4. In this proof you need to write your own “given” and “prove” statements, write the plan, and then finally write the proof.

“If two lines are parallel to a third line, then they are parallel to each other.”

Given:

Prove:

Proof:



5. Given: $\angle 1 \cong \angle 2$, and $\angle 3 \cong \angle 4$

Prove: $m \parallel o$

Proof:

