## Proofs for Math 1

 ${\it Proofs.}$ 

**Problem** 1 Because lines m and n are parallel, by alternate interior angles,  $\angle 1 \cong \angle 2$ .

Because lines k and l are parallel, by corresponding angle  $\angle 3 \cong \angle 2$ .

Then  $\angle 1 \cong \angle 3$  because they are both congruent to  $\angle 2$  (or by substitution).

Author(s): Brad Findell