Name: _____

Read Section 9.1, on isomorphisms, up to but not including the subsection on Cayley's Theorem.

Reading Questions

- 1. Make sure you know the definition of an isomorphism.
- 2. True or false, with explanations.
 - (a) The exponential map is an isomorphism from the group of real numbers with addition to the group of positive real numbers with multiplication.

(b) If G and H are abelian groups of order n, then $G \cong H$.

(c) If G is a cyclic group of order n, then $G \cong \mathbb{Z}_n$.

(d) If G, H, and K are groups, with $G \cong H$ and $H \cong K$, then $G \cong K$.

3. What struck you in this reading? What is still unclear? What remaining questions do you have?