

Algebra-2

1. Remembering: Students will be able to recall and define the concepts of homomorphism and isomorphism in group theory.
2. Understanding: Students will be able to explain the importance and applications of homomorphism, isomorphism, and the kernel of a homomorphism in abstract algebra.
3. Applying: Students will be able to apply the concepts of homomorphism and isomorphism to solve problems involving group theory, such as finding the kernel of a homomorphism and proving the First Isomorphism Theorem.
4. Analyzing: Students will be able to analyze and differentiate between infinite cyclic groups and finite cyclic groups, understanding the role of homomorphisms in mapping between the two.
5. Evaluating: Students will be able to evaluate the properties and characteristics of natural homomorphisms, including their relevance in algebraic structures.
6. Creating: Students will be able to construct examples and counterexamples to demonstrate their understanding of homomorphisms, isomorphisms, and the concepts of vector space, linear combination of vectors, linear span, and linear independence.

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