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Sage is an open-source program for doing mathematics and is the ideal companion to Abstract Algebra: Theory and Applications. Sage is designed to be a free, open source alternative to Magma, Maple, Mathematica and Matlab. It includes many mature and powerful open-source tools for mathematics, such as GAP for group theory. With a strength in number theory, Sage also has excellent support for rings and fields.

~~Abstract Algebra: Theory and Applications (A Free Textbook)~~

sage: G = QuaternionGroup() sage: G Quaternion group of order 8 as a permutation group. sage: H = AlternatingGroup(5) sage: H Alternating group of order 5!/2 as a permutation group. sage: H.is_simple() True. sage: D = DihedralGroup(8) sage: D Dihedral group of order 16 as a permutation group.

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~~Abstract Algebra~~

Section 16.10 Sage. Rings are very important in your study of abstract algebra, and similarly, they are very important in the design and use of Sage. There is a lot of material in this chapter, and there are many corresponding commands in Sage. Subsection Creating Rings. Here is a list of various rings, domains and fields you can construct simply.

~~AATA Sage Abstract Algebra: Theory and Applications (A ...~~

For the Sage part, we create the group of symmetries and then create the symmetry $\sigma_2 \sigma_2$ with coercion, followed by outputting the element in cycle notation. Then we create just the bottom row of the notation we are using for permutations. $\sigma_2 = (A B C C A B) = (1 2 3 3 1 2)$ $\sigma_2 = (A B C C A B) = (1 2 3 3 1 2)$ 3. 1.

~~AATA Sage Abstract Algebra: Theory and Applications (A ...~~

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specialties, Sage provides the most recent algorithms and tools, which is why several universities around the world already use Sage at the undergraduate level. Abstract Algebra-William Paulsen 2018-09-03 The new edition of Abstract Algebra: An Interactive Approach presents a hands-on and traditional approach to learning groups, rings, and fields.

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How can this be done with Sage? (The Set and Group in the question are just examples, I want to be able to create a table for any action. abstract-algebra group-theory math-software sagemath

~~abstract algebra How to implement a group action in Sage ...~~

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~~Abstract Algebra PreTeXt~~

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Section 13.7 Sage. Cyclic groups, and direct products of cyclic groups, are implemented in Sage as permutation groups. However, these groups quickly become very unwieldy representations and it should be easier to work with finite abelian groups in Sage.

~~AATA Sage - UTMOST~~

```
sage: h = lie_algebras.Heisenberg(ZZ, 10)
sage: h.step()
2
sage: h = lie_algebras.Heisenberg(ZZ, oo)
sage: h.step()
2
z()
¶. Return the basis element z of the Heisenberg algebra. The element z spans the center of the Heisenberg algebra.
EXAMPLES:
sage: L = lie_algebras.Heisenberg(QQ, oo)
sage: L.z()
z.
class sage.algebras.lie_algebras.heisenberg.HeisenbergAlgebra_fd(n) ¶.
```

~~Heisenberg Algebras ¶ Sage 9.1 Reference Manual: Algebras~~

Exploring Abstract Algebra with Mathematica is a learning environment for introductory abstract algebra built around a suite of Mathematica packages entitled AbstractAlgebra. These packages are a foundation for this collection of twenty-seven interactive labs on group and ring theory.

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```
sage: E = AlgebrasWithBasis(QQ).example(); E
An example of an algebra with basis: the free algebra on the generators ('a', 'b', 'c') over Rational Field
sage: e = E.an_element(); e
B [word: ] + 2*B [word: a] + 3*B [word: b] + B [word: bab]
and browse through its code:
```

~~Tutorial: Implementing Algebraic Structures ¶ Thematic ...~~

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~~SageMath - Open Source Mathematical Software System~~

About the Book This text is intended for a one- or two-semester undergraduate course in abstract algebra. Traditionally, these courses have covered the theoretical aspects of groups, rings, and fields.

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