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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:

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D Dihedral group of order 16 as a permutation group.

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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

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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.

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and Applications (A ...

For the Sage part, we create the group of symmetries and then create the symmetry $S_2 \times S_2$ 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. $S_2 = (A B C C$

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A B) = (1 2 3 3 1 2) 2 = (A B C C A
B) = (1 2 3 3 1 2) 3. 1.

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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

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(<https://cloud.sagemath.com>). Robert Beezer has written a comprehensive. Y.

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Section 13.7 Sage. Cyclic groups, and direct products of cyclic groups, are

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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.

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```
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)

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```
sage: L.z() z. class sage.algebras.lie_algebras.heisenberg.HeisenbergAlgebra_f  
d(n) ¶ .
```

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

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[word: a] + 3*B [word: b] + B [word: bab] and browse through its code:

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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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