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AlternatingGroup(5) sage: H  
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True. sage: D = DihedralGroup(8) sage:  
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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 ...~~

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For the Sage part, we create the group of symmetries and then create the symmetry  $S_3$  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.  $S_3 = \langle (A B C C A B) \rangle = \langle (1 2 3 3 1 2) \rangle$   $S_3 = \langle (A B C C A B) \rangle = \langle (1 2 3 3 1 2) \rangle$ .

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Y.

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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.

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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)
sage: L.z()
z. class sage.algebras.lie_alg
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ebas.heisenberg.HeisenbergAlgebra\_f  
d(n) ¶ .

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About the Book This text is intended for a one- or two-semester undergraduate course in abstract

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algebra. Traditionally, these courses have covered the theoretical aspects of groups, rings, and fields.

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