0.1 Generating sets

We can define a group through a generating set and an operation.

And define the group as $G =< S >$

0.2 Finite groups

Consider the set of natural numbers and addition modulo 4. This forms a group containing:

$\{0, 1, 2, 3\}$

This can be written as Z_4 or more generally as Z_n, or Z/nZ.