2. First example (Z, +, 0) (0, +, 0) (R, +, 0)(0=01907,·,1), (R=R-907,·,1) are infinite communitatine ups. SAL(N, IR) = group of nxn invertible real

metrices under multiplication.

SL(N, IR) = group of nxn real matrices

having staterminant 1.

These are infinite non-abelian groups

for n 7/2. For any set X, the set Sx of bijections X→X is a group with the georpoperation being "composition". Sx is a belian if 1×152 but non-abelian if $1\times1>2$.

of $X=\S1,...,n$ we denote $S_X=S_n$ and call if the "Symmetric group" on nolltens.