```
<< AdditiveGroupQuotients`

MakeGroup[6, True];(*andra argumentet om kvotgrupper ska genereras med gruppen*)

Estimated time is:           -6
1.40772 10 seconds.

Computation time: 0. seconds.

{Sns⟦3⟧, Cosets[3]}(*tredje undergruppen och dess sidoklasser*)

{{0, 3}, {{0, 3}, {1, 4}, {2, 5}}}

Sns⟦1⟧ \ Sns⟦3⟧ (*kvotgruppsoperatorn*)

{{0, 3}, {1, 4}, {2, 5}}

QuotientGroups[]⟦1⟧(* vanligen enbart representant för varje sidoklass*)

{{0}, {0, 1}, {0, 1, 2}, {0, 1, 2, 3, 4, 5}}

(*fullständig representation exporteras men döljs under Private`*)
AdditiveGroupQuotients`Private`QuotientGroupsFull[]⟦1⟧

{{{0, 1, 2, 3, 4, 5}}, {{0, 2, 4}, {1, 3, 5}},
 {{0, 3}, {1, 4}, {2, 5}}, {{0}, {1}, {2}, {3}, {4}, {5}}}

Indexes[](*antalet sidoklasser för varje kvotgrupp*)

{1, 2, 3, 6}

QuotientGroups[]⟦2⟧(*andra undergruppens kvotgrupper*)

{{0}, {0, 1, 2}, {0, 2, 4}}

QuotientGroupGenerators[]⟦1⟧(*icke-triviala generatorer*)

{1, 1, 1}

QuotientKernels[]⟦1⟧(*dess kärnor under kanoniska homomorpfismen*)

{{0, 1, 2, 3, 4, 5}, {0, 2, 4}, {0, 3}, {0}}

QuotientPGroupRanks[]⟦1⟧(*rank via mathematica PermutationGroup*)

{1, 2, 3, 6}

Names["AdditiveGroupQuotients`*"]

{AdditiveGroupQuotientsPackage, Canonical, Coset, CosetByInverse,
 CosetNumbers, Cosets, CosetSizeExtremes, CosetSizeMaxima, CosetSizeMinima,
 CosetSizes, CosetsLeft, CosetsPowerSet, Css, Extend, Extending, Index, Indexes,
 IsNormal, Kernel, MakeGroup, N2, NonTrivialQuotientKernels, QuotientGroup,
 QuotientGroupGenerators, QuotientGroupLasts, QuotientGroups, QuotientGroupSizes,
 QuotientGroupsPartition, QuotientGroupsRanks, QuotientGroupTable,
 QuotientKernels, QuotientKernelSpacings, QuotientPermutationGroups,
 QuotientPGroupGenerators, QuotientPGroupRanks, QuotientPGroupReduction,
 QuotientPGroupRedundancies, QuotientPGroupSizes, QuotientPGroupTables}

N2(*antalet kvotgrupper i Z6*)

4
```