HONOURS PROJECT

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Project Title: Widely supersouble groups

A group G is supersouble if there exists normal subgroups of G;
$1 = G_0, G_1, G_2, \ldots, G_n = G$ for some positive integer n such that G_i/G_{i-1} is a cyclic subgroup for all $i = 1, \ldots, n$. This type of groups is well understood and many properties are known. Recently, a new generalization of supersoluble groups has been discovered, the so-called *widely supersoluble groups*.

In this project we explore some of the nice properties of widely supersoluble groups. A solid understanding of material in WTW381 is required.