

-ReducedForms.nb is a Mathematica notebook which computes, for negative discriminants, the set of all reduced (binary quadratic) forms, and the class number. It also computes, for a given form, the equivalent reduced form. For example, on a 5-year old MacPro laptop, it calculates, and counts, the 10970 reduced forms of discriminant -77777711 in about 1.75 minutes.

There are much faster ways of getting the class number, etc. Type "gp" after the prompt on a Math. Dept. computer, then type "???" to get a user's manual for Pari, an all-purpose number theory program. (The particular command giving the above class number instantly is `qfbclassno(77777711)`.)