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Appendix 4:

Pictures of prime numbers for real non-UFD

The pictures show the quadratic character and a picture of prime numbers and units for some complex quadratic fields whose domain of integers is not a unique-factorization domain, namely of class numbers, h, as indicated

the fields of discriminant congruent 0 modulo 4:

$$h = 2: Q(\sqrt{10}), Q(\sqrt{15}), Q(\sqrt{26}), Q(\sqrt{30}), Q(\sqrt{34}), Q(\sqrt{35}), Q(\sqrt{39}), h = 3: Q(\sqrt{79}), h = 4: Q(\sqrt{82})$$

and the fields of discriminant congruent 1 modulo 4:

 $h = 2: Q(\sqrt{65}), Q(\sqrt{85}), Q(\sqrt{105}), h = 4: Q(\sqrt{145}), h = 3: Q(\sqrt{229}), Q(\sqrt{257}).$

The pictures display the prime numbers, which generate the principal prime ideals, but not those irreducible numbers which are not prime. Moreover, the non-principal prime ideals are not displayed (see, however, appendices 6 and 8).

Q(√10) chi prime numbers units D+0+000-C+0-0+000-0-0-0-000+0+0+	Q(√26) chi prime numbers <mark>units</mark> p+a-o+o-o+o+aao-o+o+o+o+o+o-o-o-o-o-o+o+aao-o-o+o-o-o
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