Appendix 1: $\quad$ Pictures of prime numbers for complex UFD

The pictures show the quadratic character and a picture of prime numbers and units for the complex quadratic fields whose domain of integers is a unique-factorization domain, namely
the fields of discriminant congruent 0 modulo 4:

$$
\mathrm{Q}(\sqrt{ }-1), \mathrm{Q}(\sqrt{ }-2)
$$

and the fields of discriminant congruent 1 modulo 4 :

$$
Q(\sqrt{ }-3), Q(\sqrt{ }-7), Q(\sqrt{ }-11), Q(\sqrt{ }-19), Q(\sqrt{ }-43), Q(\sqrt{ }-67), Q(\sqrt{ }-163)
$$

At the top, each picture mentions the field, $\mathbb{Q}(\sqrt{ } \mathrm{r})$, and displays its quadratic character (as far as space allows).
In the pictures, rational integers are placed on the x -axis and numbers of the form $\sqrt{ } \mathrm{r}$ times rational integers on the y -axis. When $\mathrm{d} \equiv 0$ modulo 4 , we use a square grid, otherwise a staggered grid, where the grid points form roughly equilateral triangles.
" : "








