(ii) There exist at most two primitive standard solutions to $|x^2 - 10y^2| = d$ for any integer $d \geqslant 9$. For example, (3, 0) and (1, 1) are primitive solutions for $d = 9$; and (20, 1) and (10, 7) are primitive solutions for $d = 390$.

(iii) The only values of d for which $\alpha \mid \beta$ for all $\alpha, \beta \in \mathbb{Z}[\sqrt{10}]$ with $N(\alpha) = d = N(\beta)$ are $d = 10^n$ where n is a non-negative integer. Note that $x + y\sqrt{10}$ is a unit if, and only if, $N(10y + x\sqrt{10}) = 10$.

(iv) In comparison to the procedure outlined in Lemma 5, is there an easier way to verify that $a + b\sqrt{10}$ is prime in $\mathbb{Z}[\sqrt{10}]$?

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