whose roots are algebraic units.
For several values of $m$, we show ways to construct some one-parameter families of cyclic monic polynomials of degree $m$ with integer coefficients and constant terms $\pm 1$, and to express their roots in terms of Gaussian periods. We give several examples of such families and their roots, including some well-known ones as Emma Lehmer's family of degree 5 and some new ones of degrees $5,6,8$ and 9 . Given a $k$-parameters family of degree $m$ and an $l$-parameters family of degree $n$, with g.c.d. $(m, n)=1$, we show how to construct a $(k+l)$-parameters family, as above, of degree mn. (Received December 06, 2006)

