

1125-VI-2512 **Joshua Boone*** (joshua.boone@lmunet.edu). *Generalized Cyclotomic Polynomials and Projective Order*. Preliminary report.

We introduce $\Phi_n(x, y)$, the generalized cyclotomic polynomial, and derive some identities. An application to 2×2 matrices of *projective order* n is given as well. Examples are provided throughout. (Received September 20, 2016)