

1135-VD-3218 **William C Bauldry*** (bauldrywc@appstate.edu), Dept of Mathematical Sciences, Appalachian State University, Boone, NC 28608, and **Michael J Bossé** (bossemj@appstate.edu), NC.
Complex Roots of Real Polynomials & Rational Functions and Dynamic Graphics. Preliminary report.

We investigate determining complex roots of polynomials and rational functions from geometric features of their graphs. We also show a formula we devised that gives the roots of $q(x)$, a quartic polynomial, based on three values $q(0)$ and $q(\pm x_0)$ for any nonzero x_0 . (Received September 27, 2017)