

1154-G5-2152 **Kasey Bray, Jerry Dwyer, Roger W. Barnard, Erin Williams and G. Brock Williams***
(brock.williams@ttu.edu). *Iteration of Newton Maps.*

Newton's method is a well-known process for locating roots of a function f using the iterative formula $z_{n+1} = z_n - \frac{f(z_n)}{f'(z_n)}$.
The associated function $F(z) = z - \frac{f(z)}{f'(z)}$ is the Newton map for f .

We will discuss the iteration of Newton maps for various classes of rational and trigonometric functions. (Received September 17, 2019)