1056-40-1660 **Robert Molina** and **Aklilu Zeleke*** (zeleke@msu.edu), E-194A Holmes Hall, Lyman Briggs College and, Department of Statistics & Probability, East Lansing, MI 48825. On the Convergence of Maximum Roots of a Fibonacci Type Polynomial Sequence.

For a positive integer k, consider a Fibonacci type polynomial sequence given by $G_0(x) = -1, G_1(x) = x - 1$ and $G_n^k(x) = x^k G_{n-1}(x) + G_{n-2}(x), n \ge 2$. Let g_n^k be the maximum root of G_n^k and α_k be the (maximum)root of $P_k(x) = x^k - x^{k-1} + x - 2$. We will show that g_{2n}^k converges monotonically to α_k from above and g_{2n+1}^k converges monotonically to α_k from below. (Received September 22, 2009)