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*Zeros and irreducibility of Chebyshev-like polynomials.*

By way of a nonlinear recurrence relations we define a sequence of polynomials resembling the Chebyshev polynomials of the first kind. Among other properties we obtain results on their irreducibility and zero distribution. We then study the  $2 \times 2$  Hankel determinants of these polynomials, which have interesting zero distributions. Furthermore, if these polynomials are split into two halves, then the zeros of one half lie in the interval  $(-1, 1)$ , while those of the other half lie on the unit circle. Some further extensions and generalizations of these results are indicated. (Received August 06, 2014)