

MR3589215 [30C10](#) [30C15](#)**Bryant, Derek** (1-WCPS);**Gardner, Robert** [[Gardner, Robert Bentley](#)] (1-ETNS-SS)**Results on the number of zeros in a disk for three types of polynomials.** (English summary)*Acta Comment. Univ. Tartu. Math.* **20** (2016), *no. 2*, 135–149.

Summary: “We impose a monotonicity condition with several reversals on the moduli of the coefficients of a polynomial. We then consider three types of polynomials: (1) those satisfying the condition on all of the coefficients, (2) those satisfying the condition on the even indexed and odd indexed coefficients separately, and (3) polynomials of the form $P(z) = a_0 + \sum_{j=\mu}^n a_j z^j$ where $\mu \geq 1$ with the coefficients $a_\mu, a_{\mu+1}, \dots, a_n$ satisfying the condition. For each type of polynomial, we give a result which puts a bound on the number of zeros in a disk (in the complex plane) centered at the origin. For each type, we give an example showing the results are best possible.”