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A NOTE ON TWO RECENT RESULTS ABOUT POLYNOMIALS WITH RESTRICTED ZEROS

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Abstract. Let $P(z)$ be a polynomial of degree n and for any complex number α, let $D_\alpha P(z) := nP(z) + (\alpha - z)P'(z)$ denote the polar derivative of the polynomial $P(z)$ with respect to α. In this paper, we first extend a recently proved result contained in a paper published in this journal to the polar derivative of a polynomial. We shall also point out a fault in other result published in the same paper and discuss in detail the validity of that result.

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