

ON THE NORMAL FAMILIES OF DIFFERENCE POLYNOMIALS

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Abstract

In this paper, we investigate normal families of difference polynomials of homomorphic or meromorphic functions. Let \mathcal{F} be a family of holomorphic functions in *D*. Suppose that $n \ge 2$ is an integer and *b* is a non-zero constant. If for any function *f* in \mathcal{F} , $\exists \eta > 0$, $\forall d$, $|d| < \eta$, $f^n(z)(f(z) - 1)f(z + d) \neq b$ in *E*, then \mathcal{F} is normal in *D*.

Keywords and phrases: normal family, meromorphic function, difference.

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