

Taylor and Maclaurin Polynomials

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April 1, 2017

$$P_{N,a}(x) = \sum_{n=0}^{\infty} f^{(n)}(a) \frac{(x-a)^n}{n!} \text{ and } f(x) \text{ then}$$

$$R_{N,a}(x) = f(x) - P_{N,a}(x)$$