

962-26-770

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It is well known that for quadratic polynomials the Mean Value Theorem takes the form  $[f(x) - f(y)]/(x - y) = f'[(x + y)/2]$ . This will be a survey talk on a Generalization of the Mean Value Theorem and some works by Newton, Lagrange, and others. More recent works, conjectures, and examples will be presented. (Received September 25, 2000)