

Newton's iterations; Examples

Example . Find a numerical method to compute $\sqrt{a}$ using only $+$, $-$, $*$, $/$ arithmetic operations. Test it for $a = 3$.

Answer. It's easy to see that $\sqrt{a}$ is a root for $f(x) = x^2 - a$.

Newton's method gives

$$x_{k+1} = x_k - \frac{f(x_k)}{f'(x_k)} = x_k - \frac{x_k^2 - a}{2x_k} = \frac{x_k}{2} + \frac{a}{2x_k}$$

Test it on $a = 3$: Choose $x_0 = 1.7$.

	error
$x_0 = 1.7$	7.2×10^{-2}
$x_1 = 1.7324$	3.0×10^{-4}
$x_2 = 1.7321$	2.6×10^{-8}

Numerical Solution Of Nonlinear Problems

James M. Ortega, Werner C. Rheinboldt



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