netodos Numericos para Calulo de Raices 1 fox) f(x) = 0f(x) = x2 +2x + 3 $\chi^2 + 2 \times + 3 = 0$ de Bisección to Kroco $m = \frac{a+b}{2}$ Sign (fca) + Sign (Ab) t(m) t(w), t(p), <0 [d, b] t(m) $m = \frac{a+b}{a}$ if f(m) f(b) < 0 f(6) a = m, b = bω=α, p=m

Método de Newton-Rophson

$$x_{i+1} = x_i - \frac{f(x_i)}{f'(x_i)} + f(x_i)$$

$$f(x_i) + \frac{f(x_i)}{f(x_i)} = f'(x_i)$$

$$f(x_i) = f'(x_i) (x_i - x_{i+1})$$

$$f(x_i) = x_i - x_{i+1}$$

$$f'(x_i) = x_i - \frac{f(x_i)}{f'(x_i)}$$

$$x_{i+1} = x_i - \frac{f(x_i)}{f'(x_i)}$$

Devivada.
$$f(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h \to 0}$$

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