

appVersion(4) = "0.99.6884.37264"

$$D(t, x, \lambda) := \lambda \cdot x + \frac{1}{1+t^2} - \lambda \cdot \arctg(t) \quad AbsTol := 10^{-8} \quad RelTol := 10^{-8}$$

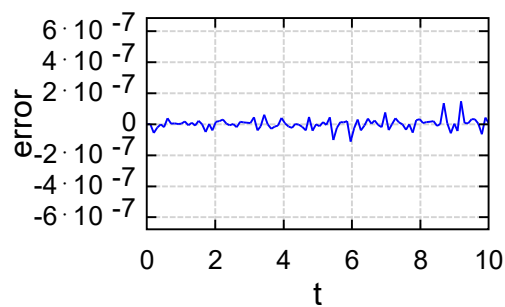
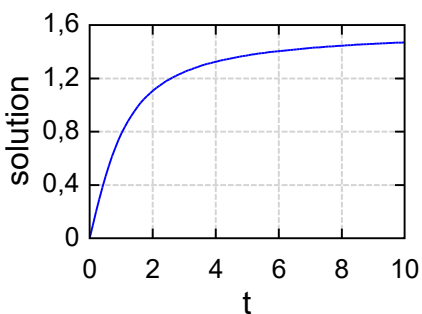
$t_0 := \text{time}(0) \quad x_0 := 0 \quad t_{min} := 0 \quad t_{max} := 10 \quad N := 100 \quad \lambda := -100$

$res := \text{mwode113}(x_0, t_{min}, t_{max}, N-1, D)$

$\text{time}(0) - t_0 = 160 \text{ MC}$

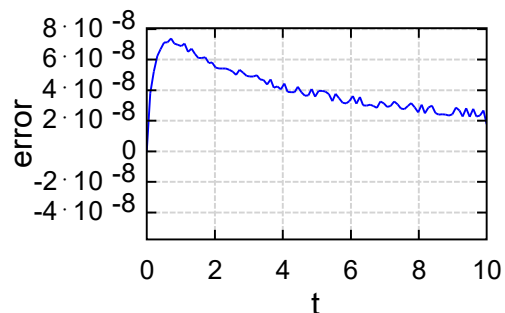
$t := \text{col}(res, 1) \quad \overrightarrow{y := \arctg(t)}$

$err := \text{col}(res, 2) - y$



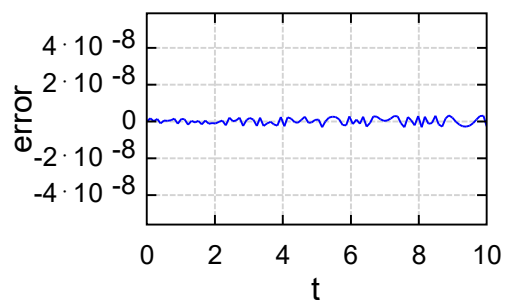
$res := \text{mwode23}(x_0, t_{min}, t_{max}, N-1, D)$

$err := \text{col}(res, 2) - y$



$res := \text{mwode45}(x_0, t_{min}, t_{max}, N-1, D)$

$err := \text{col}(res, 2) - y$



$res := \text{mwode15s}(x_0, t_{min}, t_{max}, N-1, D)$

$err := \text{col}(res, 2) - y$

