

```
appVersion(4) = "0.99.6956.134"
```

```
 $D(t, x, \lambda) := \lambda \cdot x + \frac{1}{1+t^2} - \lambda \cdot \arctg(t)$ 
```

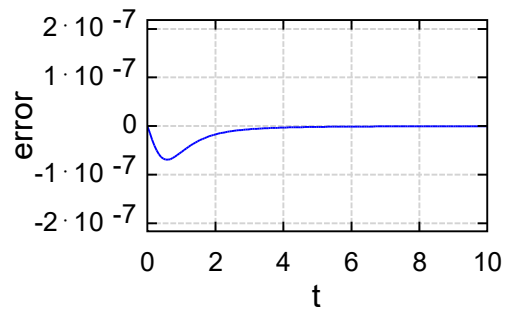
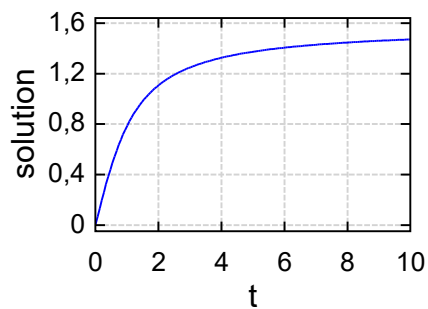
```
 $t_0 := \text{time}(0) \quad x := 0 \quad t_{min} := 0 \quad t_{max} := 10 \quad N := 150 \quad \lambda := -100$ 
```

```
 $MaxStep := \frac{t_{max} - t_{min}}{(N-1) \cdot 15} \quad AbsTol := 10^{-7} \quad RelTol := 10^{-7}$ 
```

```
res := RK547M(x, t_min, t_max, N-1, D)
```

```
time(0) - t_0 = 689 MC
```

```
pl := res \quad t := \text{col}(res, 1) \quad y := \overrightarrow{\arctg(t)} \quad err := \text{col}(res, 2) - y
```



```
 $MaxStep := \frac{t_{max} - t_{min}}{(N-1) \cdot 25}$ 
```

```
res := GearBDF(x, t_min, t_max, N-1, D) \quad err := \text{col}(res, 2) - y
```

