Numerial solution of the system of equations (with error bounds, no comparison)

Legend:
- error(x), a = 1.0, N = 4, α = 1.0
- error(y), a = 1.0, N = 4, α = 1.0
- $x' = -x + axy$, a = 1.0, N = 4, α = 1.0
- $y' = -2y + 2ay^2$, a = 1.0, N = 4, α = 1.0

x(t) or y(t)

Time t