```
In [3]: \int_{-dt(u::Taylor1)} = integrate(u) # the symbol \int is obtained as \int<TAB>
        function taylor_step(f, u0)
            u = copy(u0)
            unew = u0 + \int_{-}^{dt} (f(u))
            while unew != u
                u = unew
                unew = u0 + \int_{-}dt(f(u)) # Picard iteration
            end
            return u
        end
        f(x) = x # Differential equation
        order = 20 # maximum order of the Taylor expansion for the solution
        u0 = Taylor1([1.0], order) # initial condition given as a Taylor expansion
        solution = taylor_step(f, u0); # solution
        solution(1.0) - exp(1.0) # compare the solution evaluated at t=1 with the exact value
Out[3]: 0.0
```