

# The cosine function

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The cosine function can be defined through the differential equation

$$y''(x) = -y(x) \quad (1)$$

with the boundary conditions

$$y(0) = 1, y'(0) = 0. \quad (2)$$

The result was obtained using ode.rk23, a Runge-Kutta ODE-solver provided by D.V.Fedorov.

