

## Solving ODEs using MatLab

A command used to solve ODEs in MatLab (a solver) is `ode45`

Enter

```
>> help ode45
```

to see information about this command. Note that all commands and variables in MatLab help are written in capitals.

The first argument of `ode45` is a function. It is convenient to program it in a separate file.

Consider, for instance the equation

$$y' = \frac{\cos t}{2y - 2}$$

Program the function in the right-hand side of the equation in the file `example1.m` using MatLab editor.

```
function yprime=example1(t,y)
```

```
yprime=cos(t)/(2*y-2);
```

Then type

```
>> [t, y]=ode45(@example1,[0, 4*pi],3);
```

```
>> plot(t, y)
```

We will find a table of values of the function  $y$  at values of  $t$  from 0 to  $4\pi$ . The initial value of  $y$  at  $t = 0$  will be 3, which is entered as the last entry of `ode45`.

The command `plot(t, y)` will plot the graph of the function  $y$  on the interval  $[0, 4\pi]$ .

**Example.** Use `ode45` to plot the solution of the initial value problem

$$y' + y + y^3 = \cos^2 t, \quad y(0) = -3$$

# Solving Odes With Matlab

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Berghe**



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