

## Workshop on Scilab

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Jointly organized by

*Bhaskaracharya Pratishthana, Pune and IIT, Bombay*

venue: **Bhaskaracharya Pratishthana**

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### Assignment-IV

1. Plot the graph of each of the following function where  $x = -3 : .1 : 3$ .
  - (a)  $y = \sin x - 2.5 \cos 3x$
  - (b)  $y = (1 - x^2)/(1 + x^2)$
2. Plot the graph of the following functions on same set of axes where  $t = -3 : .1 : 3$ .
  - (a)  $y = \sin t + \sin 2t + \cos 3t$
  - (b)  $y = \exp(-0.1t) \sin(t/2 + \pi/2)$
3. Plot the graph of the functions where  $t$  is the parameter where  $t = -3 : .1 : 3$ .
  - (a)  $x(t) = \sin t + \sin 2t + \cos 3t$ .
  - (b)  $y(t) = 5 + 3t + 9.2t^2$ .
4. Plot the graph of the following function where  $x = -3 : .1 : 3$ ,  
 $y = -4 : .1 : 4$ 
  - (a)  $f(x, y) = x^3 + \cos y$
  - (b)  $f(x, y) = -x + y - 2xy^2$