

# Introduction to Scilab

Funded by the National Mission on Education through ICT

Indian Institute of Technology Bombay,

Organised by FOSSEE Group, IIT Bombay, <http://scilab.in>

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(The sequence of spoken tutorials to be listened/followed is same as that of exercise sets below.)

## 1. Getting Started

Solve the following examples on the Scilab Console as soon as the relevant topic is explained in the tutorial.

(a) Perform the following calculations on the scilab command line:

$$\text{phi} = \frac{\sqrt{5} + 1}{2} \qquad \text{psi} = \frac{\sqrt{5} - 1}{2}$$

Find  $1/\text{phi}$  and  $1/\text{psi}$ .

(b) Verify Euler's identity: Is  $e^{\pi i} + 1$  close to zero?

(c)  $\sqrt[4]{256}$

(d)  $256^{0.25}$

(e)  $e^{i\pi}$

(f)  $\tan(45)$

(g)  $\tan^{-1}(1)$