```
(* Comments in Mathematica are written inside parenthesis and star. Start
  by opening Wolfram Mathematica (see program list). Take latest
  version maybe 9.0 or 10.0. Choose a New notebook from File in the
  menu. Start by calculating 1+3, type it and press Shift+Enter*)
(* Hopefully the kernel (the part that is calculating)
     gave the right answer :). Note In and Out and the sharp
  brackets to the very right. These brackets define the so called
  cells. Next we go on by calculating 3/7. Don't forget Shift+Enter.
3 / 7
(* Oops what happend? Mathematica tries always
 to be exact! If you what decimals you write instead *)
N[3/7]
(* Commands in Mathematica always begins with
 capital letters. Calculate sinus for \pi/6. Note S and P.*)
Sin[Pi / 6]
(* Guess what the command below is? Calculate it! Note also big S here.*)
Sqrt[5]
(* Time to run a little program. 4 lines. Note;
to the right. Then you avoid that the lines are printed on the
screen. Note you can use space instead of star for multiplication.*)
a = 2;
b = 7;
c = ab;
Print["c=", c]
(* Now we calculate sum of the first 50 inverted squares. 1 + 1/4 + 1/9 + \dots
   +1/2500. Note the command Sum for doing this. Mark Sum with the
 mouse and go Help in the menu and choose Find Selected Function. A
 new box pops up and you can read a lot about Sum. Note ^ for
 powers and curly brackets \{k,1,50\} which means k runs from
 1 to 50. If you are not happy with the output try NSum*)
Sum[1/(k^2), \{k, 1, 50\}]
(* Finally we will make a plot that we will export to the LaTeX-
 file and finally it will come to the pdf. Two curves,
the exponential and cosine, from -3 to 1.*)
plot1 = Plot[Exp[t], \{t, -3, 1\}, PlotRange \rightarrow \{-1, 3\}];
plot2 = Plot[Cos[t], \{t, -3, 1\}, PlotRange \rightarrow \{-1, 3\}];
(* In fact you can do it on one line by
 Plot[{Cos[t], Exp[t]}, {t, -3, 1}, PlotRange \rightarrow {-1, 3}]*)
Show[plot1, plot2]
(* How to get this plot into your LaTeX-document? Do you se the bracket
  to the very right of the figure? Click on that one. Under File you select
  Save Selection As. In box Save As Type I choose EPS and give it a name,
for example two_curves, and Save. Important that your eps file and your tex-
 file are in the same folder.*)
```