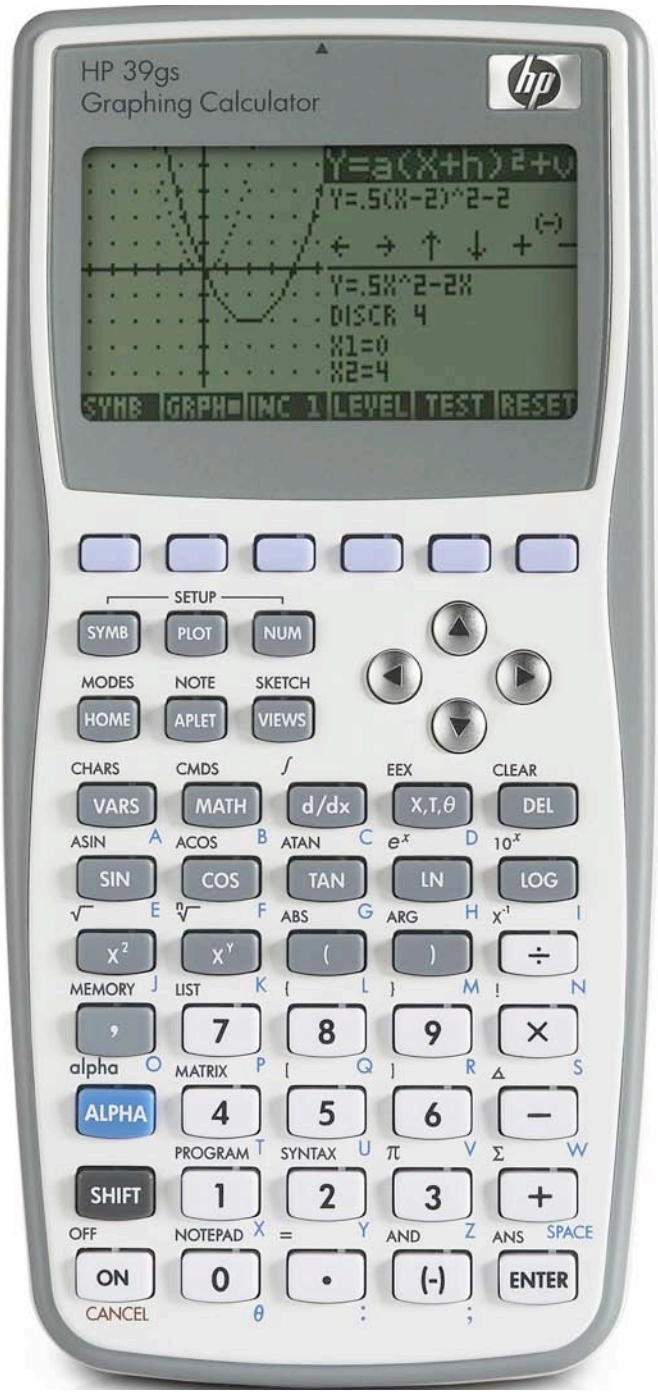
hp calculators

HP 39gs Working with aplets

What are aplets?

The APLET view

A quick tour



What are aplets?

Aplets are chosen from the APLET view. The simplest way to visualize an aplet is to think of it as a specialize room in which to work. For example, if you want to work with polar equations then choose the Polar aplet. Want to test an inferential hypothesis? Choose the Inference aplet.

Figure 1

Each aplet provides tools and views that are particularly suited to its purpose. Some examples of this are:

- The Function aplet provides tools in the PLOT view with which you can quickly and easily find roots, intersections, slopes turning points and areas.

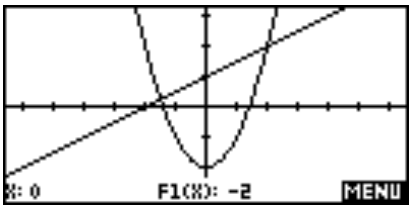


Figure 2

Figure 3

- The Statistics aplet provides statistical graphs and also summary statistics.

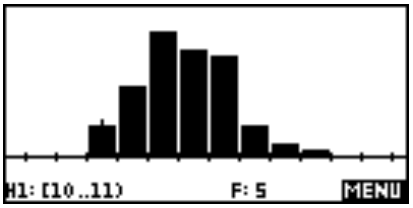


Figure 4

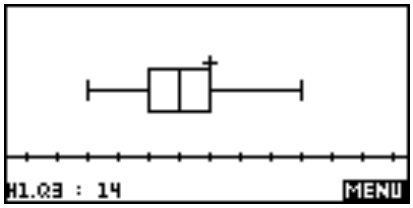


Figure 5

- The NUM view in the Solve aplet is customized to let you solve for any variable in an equation. How long to fall 2.5km? Simply enter the appropriate equation, highlight the variable you want to solve for and press SOLVE.

Figure 6

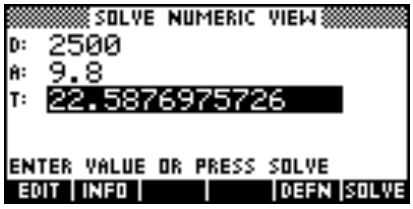


Figure 7

The APLET view

The APLET view is used to select the aplet with which to work. Simply highlight the one you want and press the START button (screen key 6) or press ENTER. The order in which aplets appear in the APLET view is governed by the SORT button.

Tip: To jump straight to an aplet, simply type the 1st letter of the word. For example, press LOG (letter 'I') to jump to the Inference aplet. There is no need to press ALPHA first.

Figure 6

If you have entered functions or data into an aplet you can SAVE that aplet under a new name. You can then RESET and re-use the original. The SEND and RECV buttons can be used to transfer any aplet to another hp 39gs using infra-red. Calculators must be within approximately 10cm to transfer information.

The SEND and RECV buttons can also be used to transfer aplets to a computer. Simply install the software on the computer, select the Disk drive… option from the SEND or RECV menus and then use the cable to transfer to the aplet to the computer or to restore a previously saved version to the calculator.

In addition to saved copies of the standard ten aplets you can also download and use e-lessons. These are specially programmed aplets which are designed as teaching or learning tools. A collection of these can be found at the www.hp.com/calculators/hpselect site or at other web sites such as The HP Home view at www.hphomeview.com.

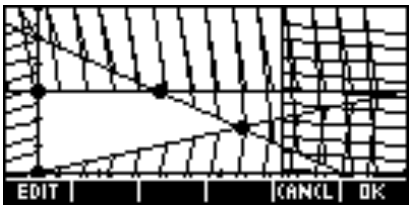


Figure 7

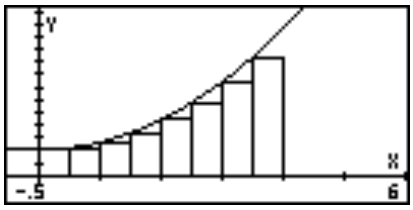
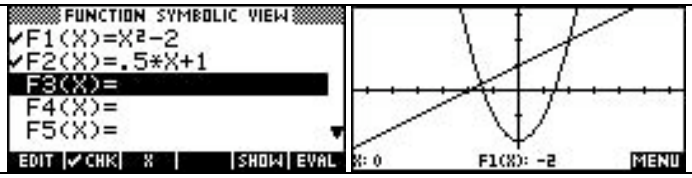
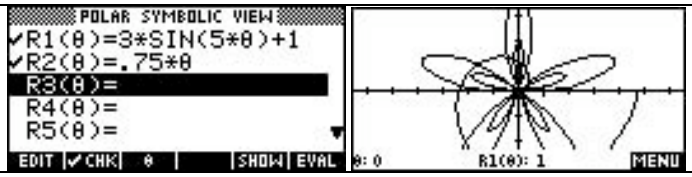
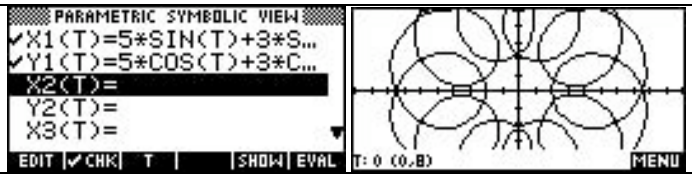
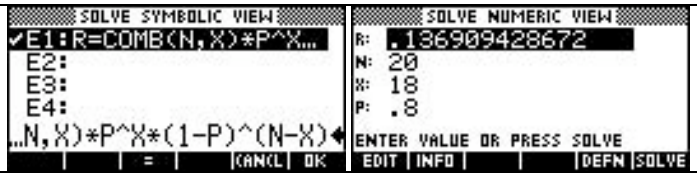
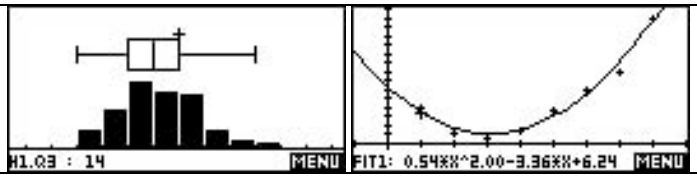
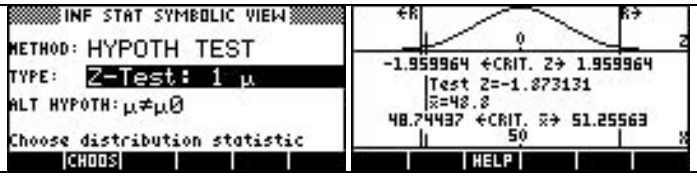
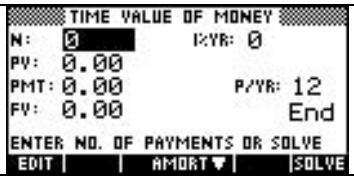
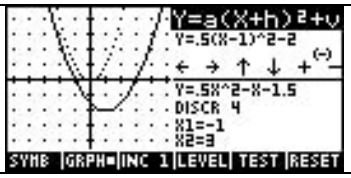
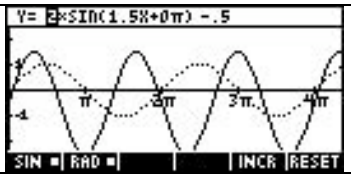


Figure 8

A Quick Tour of the Standard aplets

A total of ten aplets are built into the hp 39gs. They are shown below.

Aplet	*Purpose*	*Example*
Function	Used to graph and analyze functions of the form *f(x) = ……*	
Polar	Used to graph and analyze functions of the form *r(theta) = …….*	
Parametric	Used to graph and analyze functions of the form *x(t) =…, y(t) = …*	

Aplet	*Purpose*	*Example*
Solve	Given an equation with any number of parameters, this aplet will solve for one if supplied with the others.	
Statistics	Displays and analyzes one variable and two variable statistics, fitting a variety of curves.	
Sequence	Analyzes sequences graphically or numerically. They can be recursive or non-recursive.	
Inference	Provides powerful and visually intuitive access to hypothesis testing and confidence intervals.	
Finance	Used to analyze time/value of money problems.	
Quad Explorer	An in-built e-lesson which lets the student explore quadratic graphs in the form $y=a(x+h)^2+v$.	
Trig Explorer	An in-built e-lesson which lets the student explore trigonometric graphs in the form $y=a\sin(bx+c)+d$.	

One of the major strengths of the HP 39gs is the ability to download extra e-lessons from the web to use in the classroom or in your day-to-day work with the calculator.