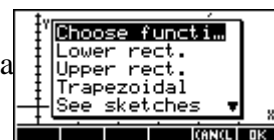


## Example Downloaded Aplets from the Internet

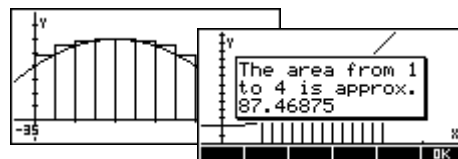
The most powerful feature of the hp 39gs & hp 40gs is that you can download aplets and programs from the internet to help you to learn and to do mathematics. Some quick examples of aplets that are available are shown here. More are listed in the paper "Teaching Calculus using the hp 39gs & hp 40gs" which can be found in the Help screen of [www.hphomeview.com](http://www.hphomeview.com). In each case the aplet is controlled by a menu. This menu is created by the programmer and 'attached' to the VIEWS button so that it displays in place of the normal menu.

### Curve Areas

This aplet allows the user to find approximations to the area under a curve by finding either the lower rectangular area, the upper rectangular area, or the trapezoidal area.

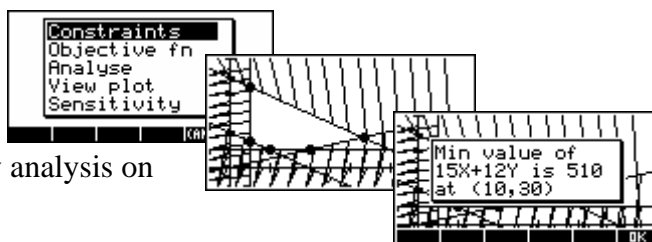


The user can choose the end points of the interval, the type of calculation and the number of rectangles to be used. The rectangles are drawn on the screen. A worksheet introduces the idea of integration to find areas.



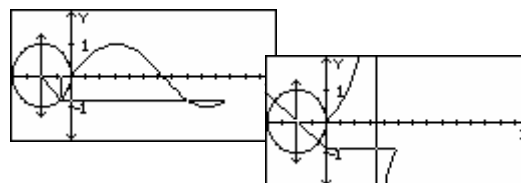
### Linear Programming

This aplet visually solves linear programming problems, finding the vertices of the feasible region and the max/min of an objective function. It even performs sensitivity analysis on the collected vertices.



### Sine Define

This is an aplet to illustrate the process of obtaining the sine, cosine & tangent graphs from the unit circle.



### Periodic Table

This is a library that can be added to the calculator which allows the user to display a periodic table with information on each element.

H		H14.9591
Li	B	10.811
Be	C	12.011
B	N	14.007
C	O	15.999
N	F	18.998
O	Ne	20.180
F	Na	22.990
Ne	Mg	24.305
Na	Al	26.982
Mg	Si	28.086
Al	P	30.974
Si	S	32.06
P	Cl	35.453
S	Ar	39.948
Cl	K	39.098
Ar	Ca	40.078
K	Sc	44.956
Ca	Ti	47.88
Sc	V	50.942
Ti	Cr	51.996
V	Mn	54.938
Cr	Fe	55.845
Mn	Co	58.933
Co	Ni	58.71
Ni	Cu	63.546
Cu	Zn	65.38
Zn	Ga	69.723
Ga	Ge	72.64
Ge	As	74.922
As	Se	78.96
Se	Br	79.904
Br	Kr	83.80
Kr	Rb	85.468
Rb	Sr	87.62
Sr	Y	88.906
Y	Zr	91.224
Zr	Nb	92.906
Nb	Mo	95.94
Mo	Tc	98.906
Tc	Ru	101.07
Ru	Rh	102.91
Rh	Pd	106.42
Pd	Ag	107.87
Ag	Cd	112.41
Cd	In	114.82
In	Sn	118.71
Sn	Sb	121.76
Sb	Te	127.6
Te	I	126.90
I	Xe	131.29
Xe	Ba	137.33
Ba	La	138.91
La	Ce	140.12
Ce	Pr	140.91
Pr	Nd	144.24
Nd	Pm	144.91
Pm	Sm	150.36
Sm	Eu	151.96
Eu	Gd	157.25
Gd	Tb	158.93
Tb	Dy	162.50
Dy	Ho	164.93
Ho	Er	167.26
Er	Tm	168.93
Tm	Yb	173.05
Yb	Lu	174.97
Lu	Hf	178.49
Hf	Ta	180.95
Ta	W	183.85
W	Re	186.21
Re	Os	190.23
Os	Pt	195.08
Pt	Au	196.97
Au	Hg	200.59
Hg	Tl	204.38
Tl	Pb	207.2
Pb	Bi	208.98
Bi	Po	209
Po	At	210
At	Rn	222
Rn	Fr	223
Fr	Ra	226
Ra	Ac	227
Ac	Th	232.04
Th	Pa	231.04
Pa	U	238.03
U	Np	237.05
Np	Pu	239.05
Pu	Am	243.06
Am	Cm	247.07
Cm	Bk	247.07
Bk	Cf	251.08
Cf	Es	252.08
Es	Fm	253.08
Fm	Md	257.09
Md	No	259.10
No	Lr	262.11
Lr	Rf	261.10
Rf	Db	262.11
Db	Sg	263.11
Sg	Bh	264.11
Bh	Hs	265.11
Hs	Mt	268.11
Mt	Uu	288
Uu	Uub	289
Uub	Uuc	290
Uuc	Uud	291
Uud	Uue	292
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Uuj	Uuk	398
Uuk	Uul	399
Uul	Uum	400