Hasky Plotter (a small Haskell function plotter for TEXMACS)

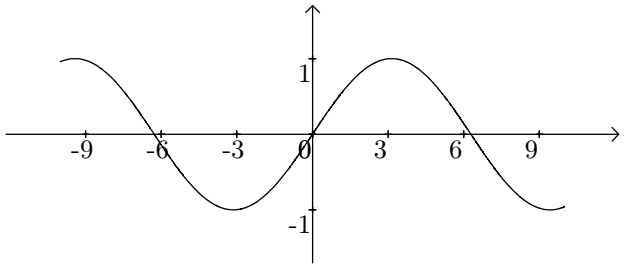
1] Cartesian single curve (function of variable x only)

Step 1 : Introduce the function as : **hp plot "f(x)" "(a,b)"**

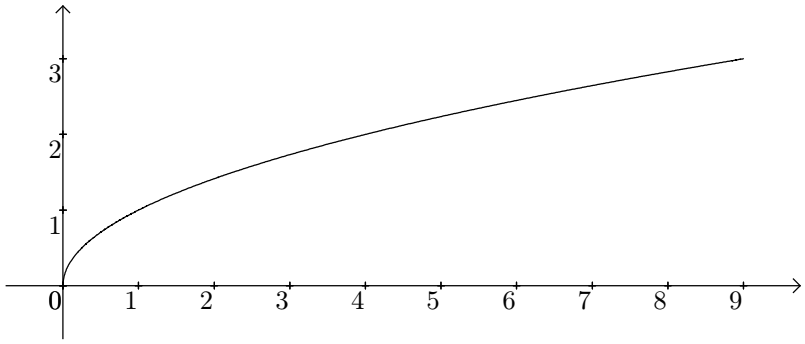
Step 2 : Revert (from the menu File)

Examples:

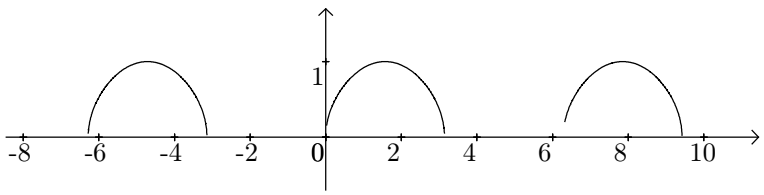
```
Shell] hp plot "sin(x)" "(-3,3)"
```




```
Shell] hp plot "sqrt(x)" "(0,9)"
```




```
Shell] hp plot "sqrt(sin(x))" "(-7,10)"
```



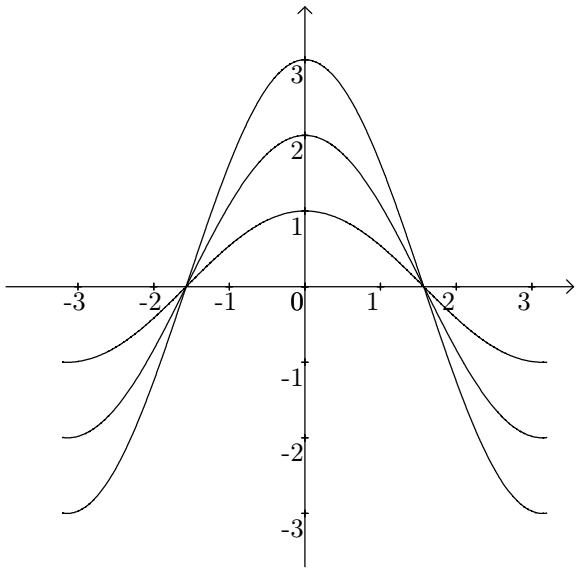
2] Set of n cartesian curves (functions of variable x only)

Step 1 : Introduce the function as : **hp plots "$f_1(x)|f_2(x)|...|f_n(x)$" "(a,b)"**

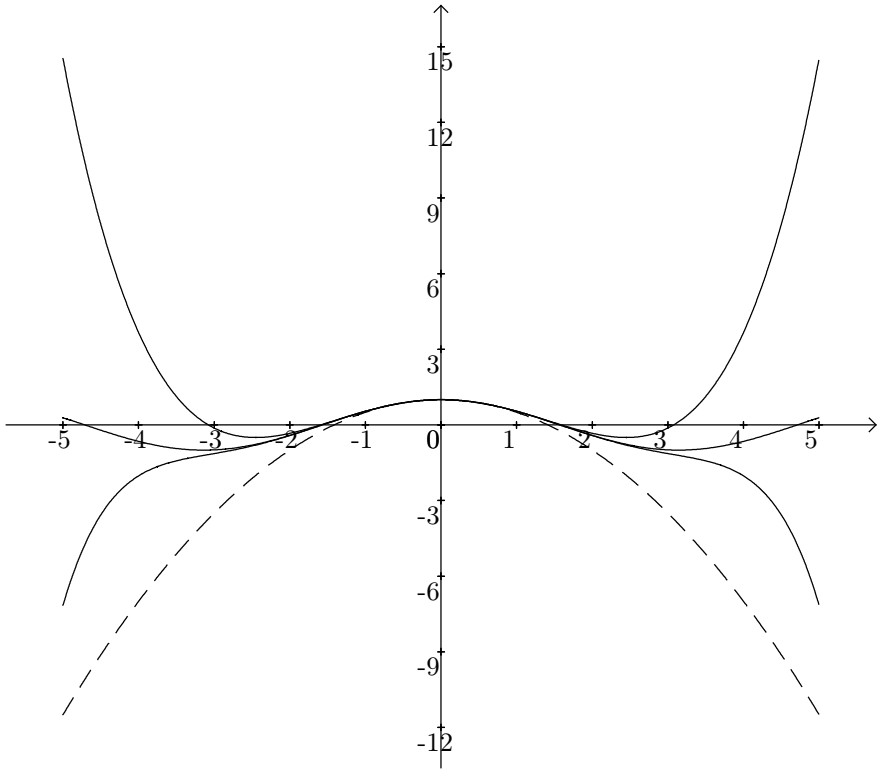
Step 2 : Revert (from the menu File)

Examples

```
Shell]  hp plots "cos(x)|2*cos(x)|3*cos(x)" "(-3.2,3.2)"
```




```
Shell]  hp plots "1-x^2/2|1-x^2/2+x^4/24|1-x^2/2+x^4/24-x^6/720|cos(x)" "(-5,5)"
```



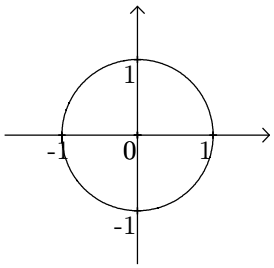
3] Parapetric single curves (x and y functions of t only)

Step 1 : Introduce the function as : **hp paramplot "x(t),y(t)" "(t_1,t_2)"**

Step 2 : Revert (from the menu File)

Example

```
Shell]  hp paramplot "cos(t),sin(t)" "(-3.1,3.2)"
```



4] Set of n parapetric curves (x and y functions of t only)

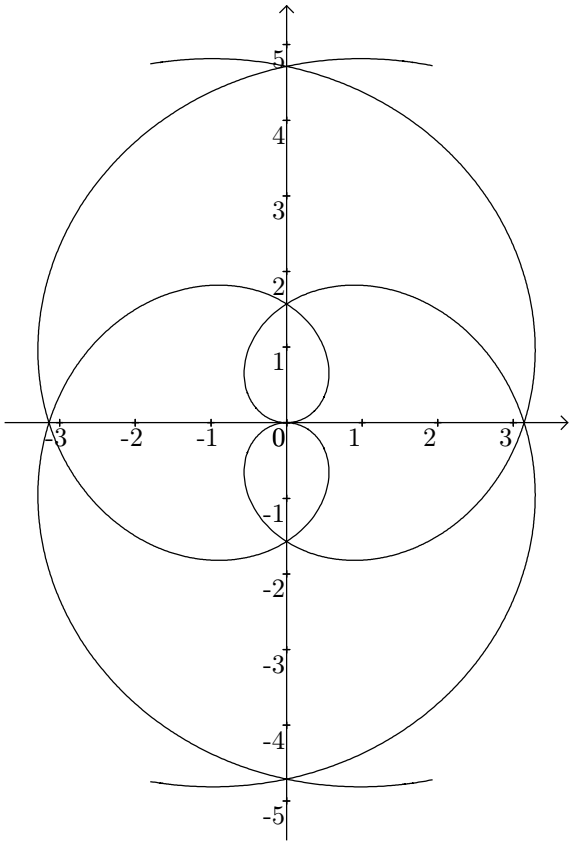
Step 1 : Introduce the function as :

hp paramplots "x_1(t),y_1(t)|x_2(t),y_2(t)|...|x_n(t),y_n(t)" "(t_1,t_2)"

Step 2 : Revert (from the menu File)

Example

```
Shell]  hp paramplots "t*cos(t),t*sin(t)|t*cos(t),(-t)*sin(t)" "(-5,5)"
```



5] Polar (parapetric) single curves (r and θ as functions of t only)

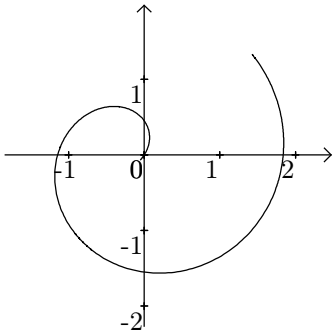
Step 1 : Introduce the function as : **hp polarplot "r(t),θ(t)" "(t_1,t_2)"**

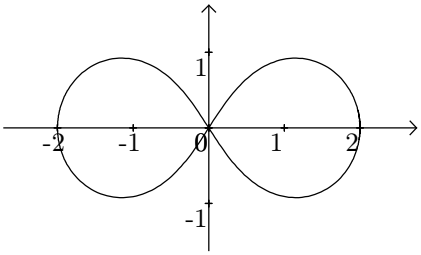
Step 2 : Revert (from the menu File)

exemples

```
Shell] hp polarplot "log(t),t" "(0,6.3)"
```

```
Shell] hp polarplot "2*cos(t),sin(t)" "(0,6.3)"
```





6] Set of n polar (parapetric) curves (r and θ as functions of t only)

Step 1 : Introduce the function as :

hp polarplots "x_1(t),y_1(t)|x_2(t),y_2(t)|...|x_n(t),y_n(t)" "(t_1,t_2)"

Step 2 : Revert (from the menu File)

Example

```
Shell]  hp polarplots "3*sin(24*t),4*t|2*cos(6*t),4*t" "(0,5)"
```