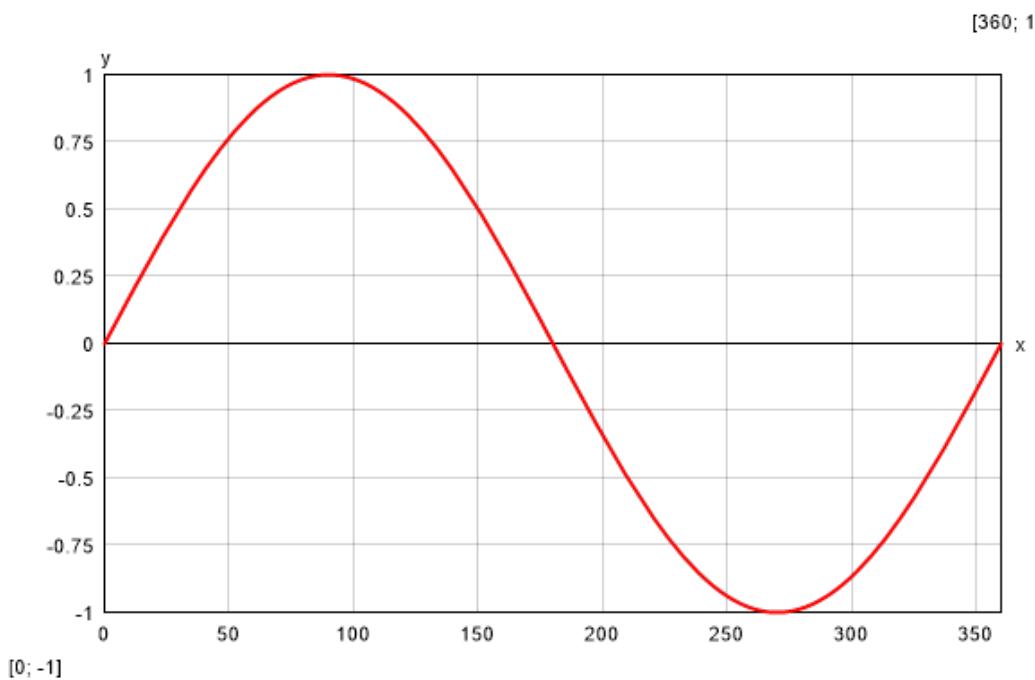


# Graphing and plotting in Calcpad



**For contact :**



<http://m.me/Ebrahim4edu>



ebrahim4education@gmail.com

# 1 Simple plot

## code

```
"Simple plot"  
  
'Plotting of sin wave'  
  
 $f(x) = \sin(x)$   
  
#hide  
  
a = 0  
  
b = 360  
  
#show  
  
 $\$Plot\{f(x) @ x = a : b\}$ 
```

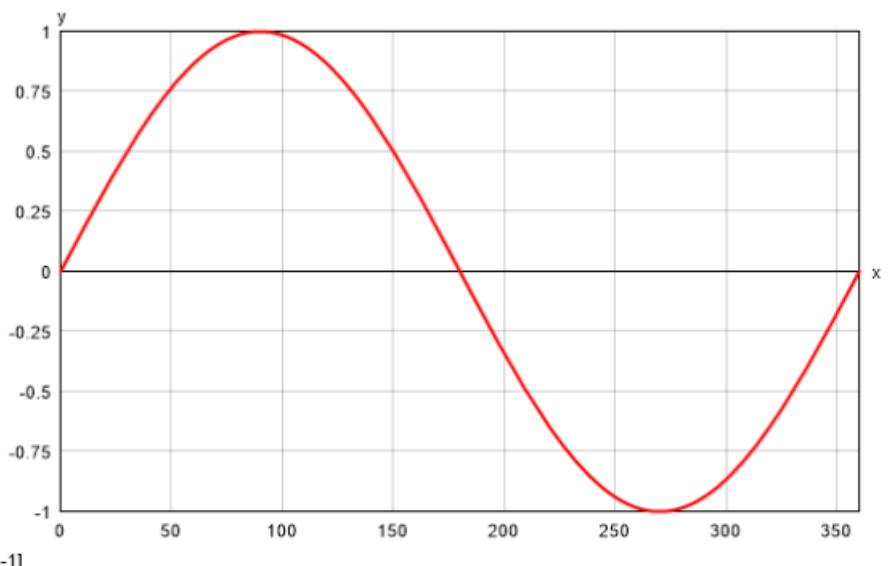
## Output

### Simple plot

Ploting of sin wave

$$f(x) = \sin(x)$$

[360; 1]



# 2 Parameteric plot

## code

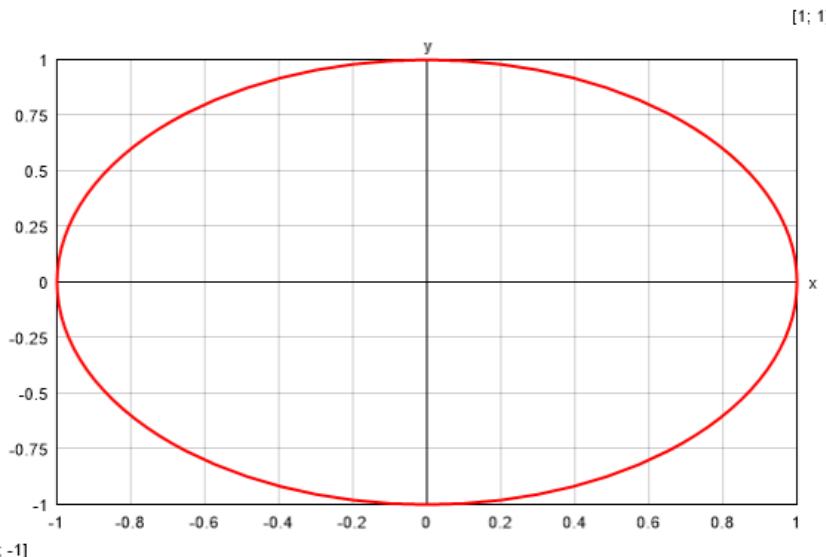
```
"Parametric plot"  
  
x(t) = sin(t)  
  
y(t) = cos(t)  
  
#hide  
  
a = -360  
  
b = 360  
  
#show  
  
$Plot{x(t)|y(t) @ t = a : b}
```

## Output

### Parametric plot

$$x(t) = \sin(t)$$

$$y(t) = \cos(t)$$



# 3 Multiple plot

Plot two functions in the same graph

code

```
"Multiple plot"  
'sin wave and cos wave in same curve'  
  
f_1(x) = sin(x)  
  
f_2(x) = cos(x)  
  
#hide  
  
a = 0  
  
b = 360  
  
#show  
  
$Plot{f_1(x) & f_2(x) @ x = a : b}
```

## Output

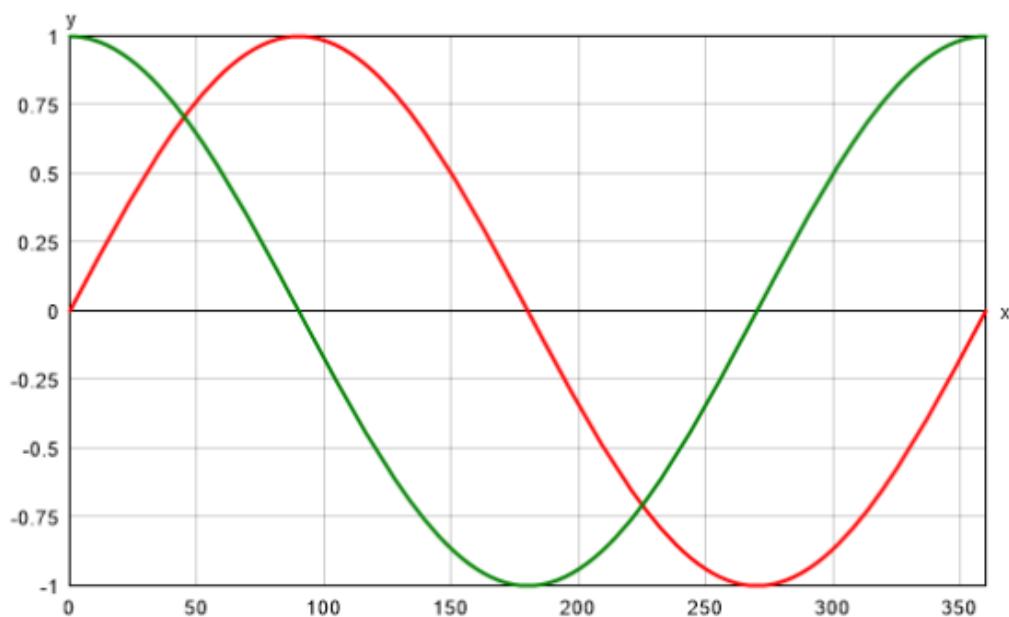
### Multiple plot

sin wave and cos wave in same curve

$$f_1(x) = \sin(x)$$

$$f_2(x) = \cos(x)$$

[360; 1]



[0; -1]

# 4 Multiple parametric

plot two parametric functions in same graph

code

```
"Multiple parameteric"

x_1(t) = t

y_1(t) = sin(t)

x_2(t) = 2*t

y_2(t) = sin(t)

#hide

a = 0

b = 360

#show

$Plot{x_1(t)|y_1(t) & x_2(t)|y_2(t) @ t = a : b}
```

## output

### Multiple parameteric

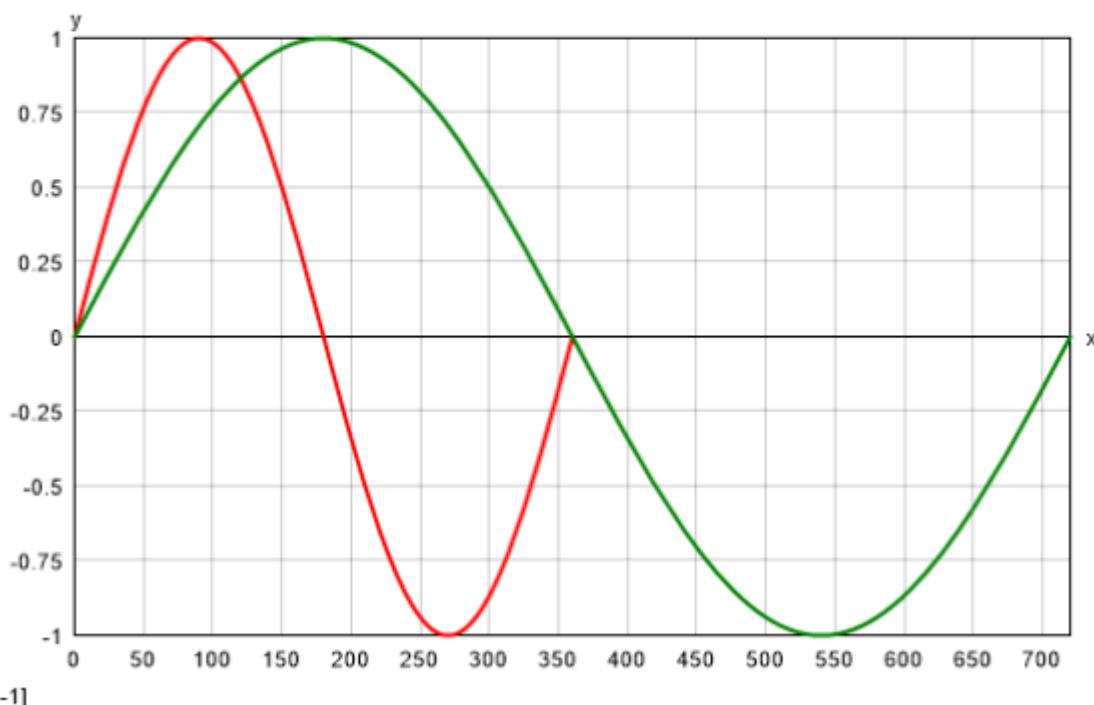
$$x_1(t) = t$$

$$y_1(t) = \sin(t)$$

$$x_2(t) = 2 \cdot t$$

$$y_2(t) = \sin(t)$$

[720; 1]



# 5 Map

## 2D color map of a 3D surface

code

```
"Map"

f(x; y) = x^2 + y^2

#hide

a = 0

b = 50

c = 0

d = 50

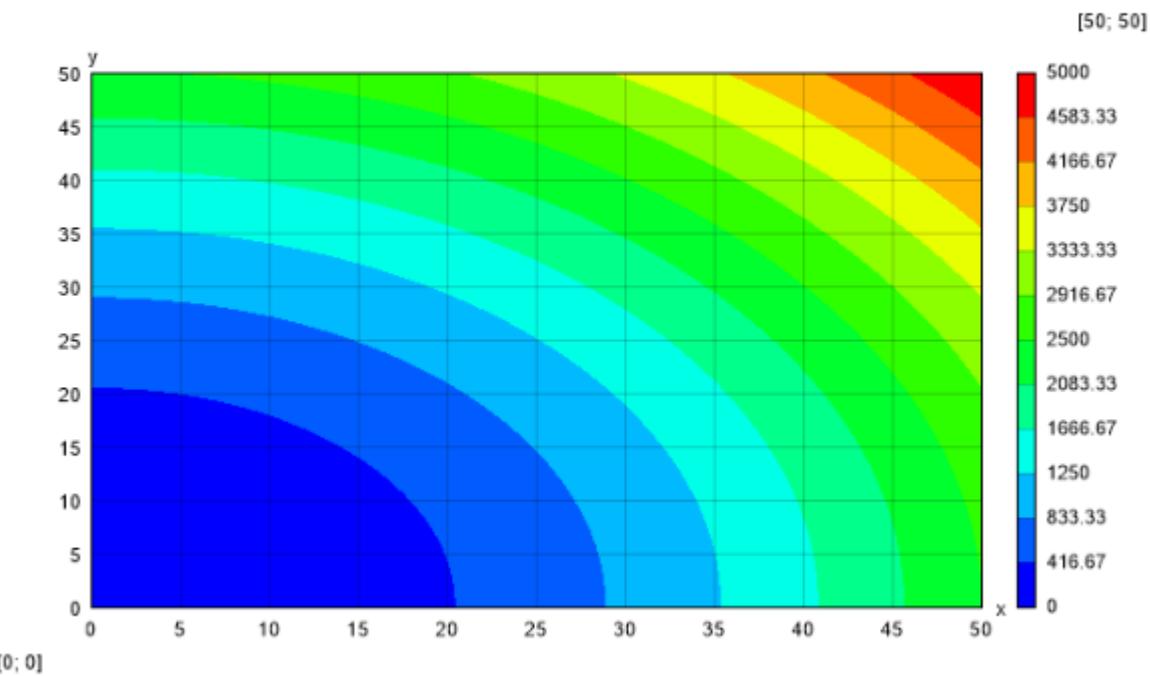
#show

$Map{f(x; y) @ x = a : b & y = c : d}
```

## Output

### Map

$$f(x; y) = x^2 + y^2$$



## Changing the dimensions of the plot area

for setting the height of plot area in pixels

PlotHeight = 400

for setting the width of plot area in pixels

Plotwidth = 400