

plot(x1,y1,options)

to plot functions

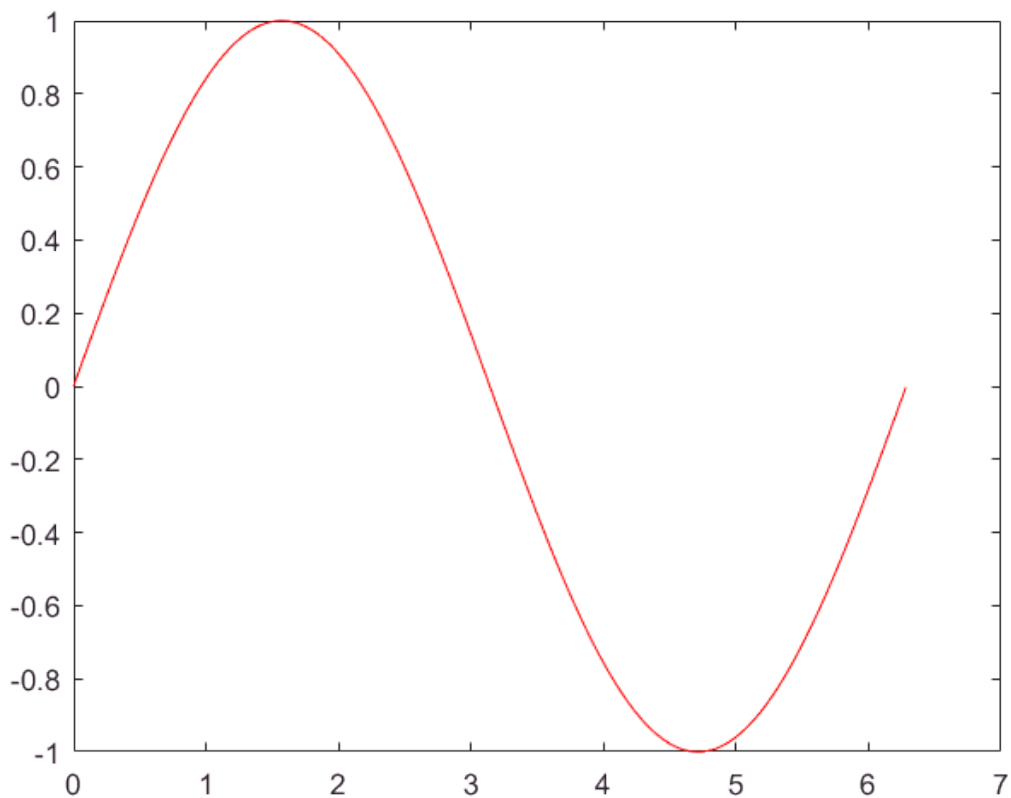
x1 is the horizontal vector y1 is the vertical options options could be 'color' like

'b' blue

'r' red

'k' black

```
x1 = 0:0.01:2*3.14;  
y1 = sin(x1);  
plot(x1,y1, 'r')
```



figure()

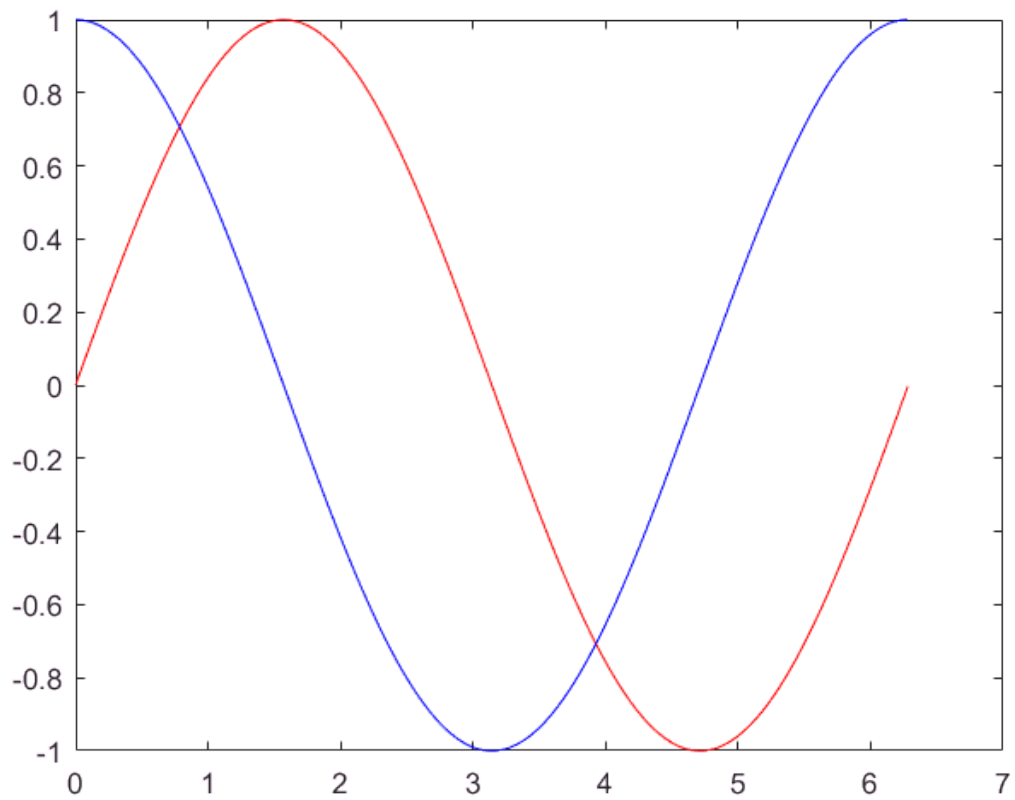
to select existing figure for plotting or editing

hold on

```
x1 = 0:0.01:2*3.14;  
y1 = sin(x1);  
plot(x1,y1, 'r')  
hold on  
x2 = 0:0.01:2*3.14;  
y2 = cos(x1);  
plot(x2,y2, 'b')
```

NOTE: to turn off hold on state

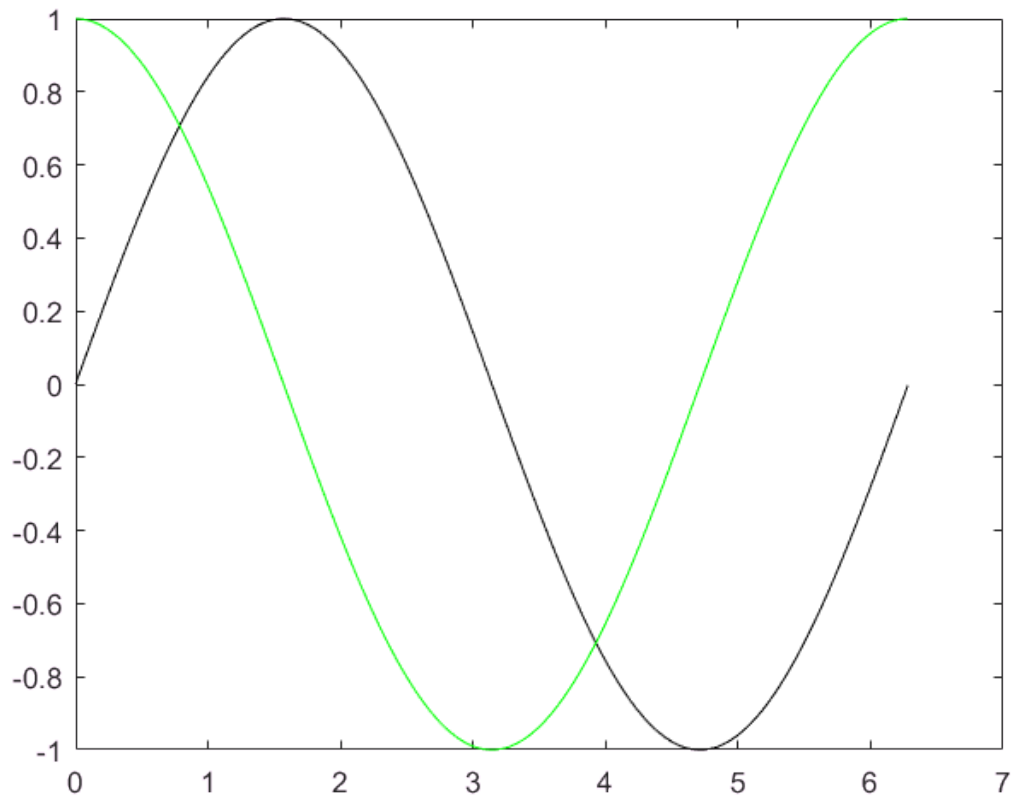
```
hold off
```



plot(x1,y1,options,x2,y2,options)

for multiple plotting on the same figure

```
plot(x1,y1, 'k',x2,y2, 'g')
```



styling the graph

grid() %to show grids on the figure

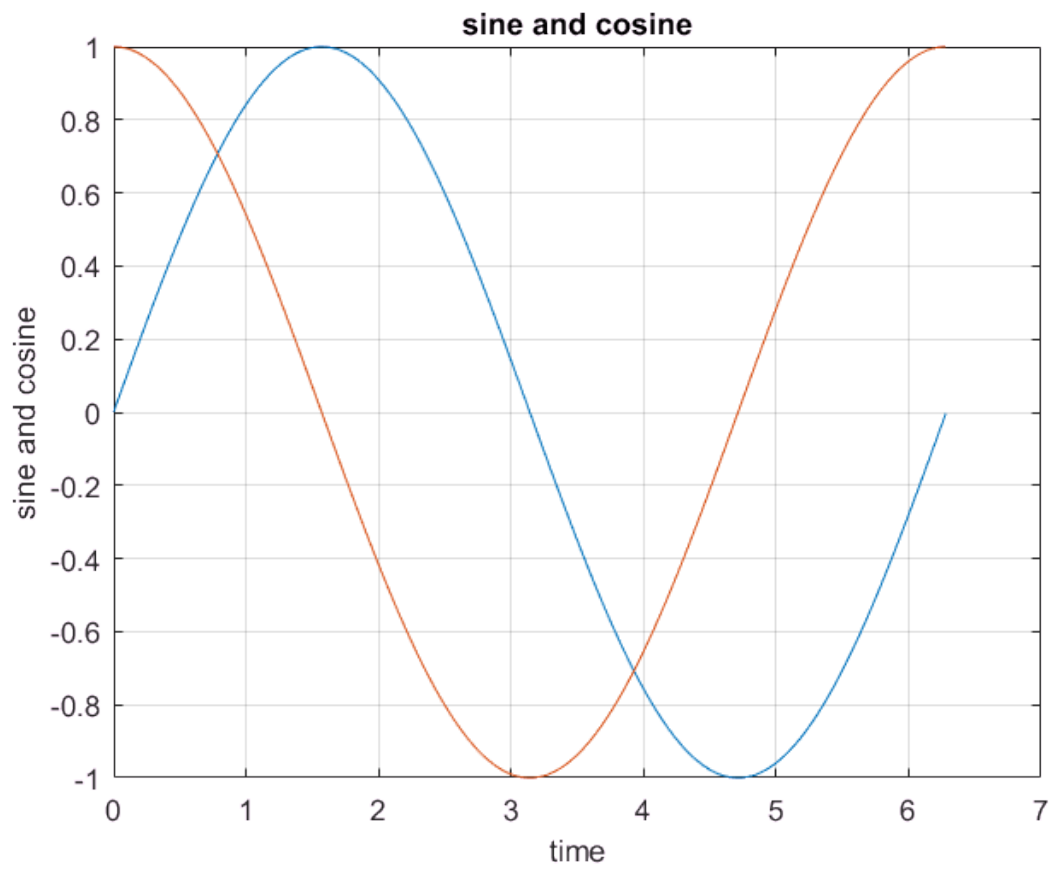
title() %to add title to the figure

legend() %to show what color related to which graph

xlabel() %to give x axis title

ylabel() %to give y axis title

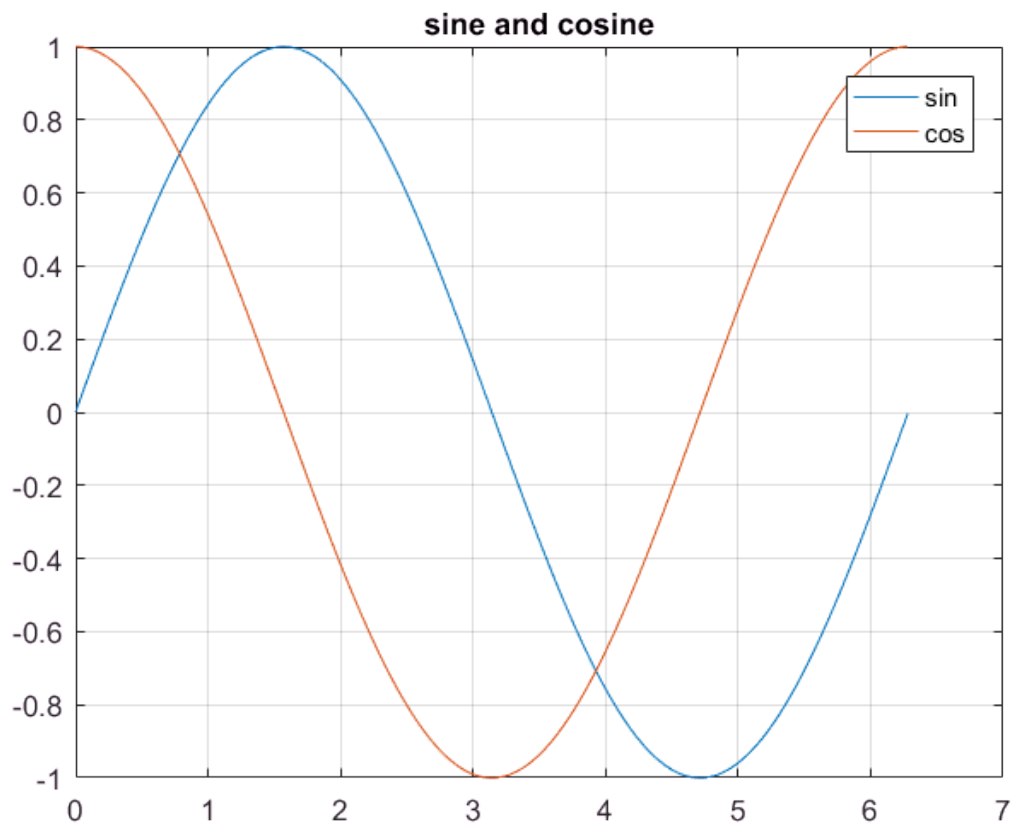
```
plot(x1,y1,x2,y2)
grid()
title('sine and cosine')
xlabel('time')
ylabel('sine and cosine')
```



legend()

to show what color related to which graph

```
plot(x1,y1,x2,y2)
grid()
title('sine and cosine')
legend('sin', 'cos')
```



close()

for closing a figure

closeall()

for closing all figures