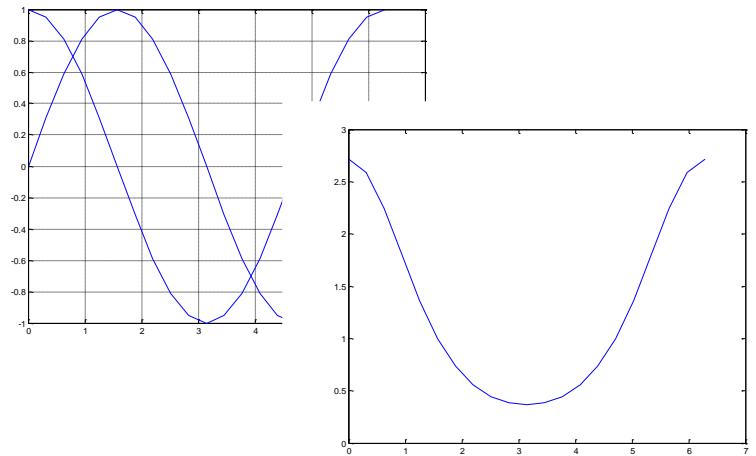


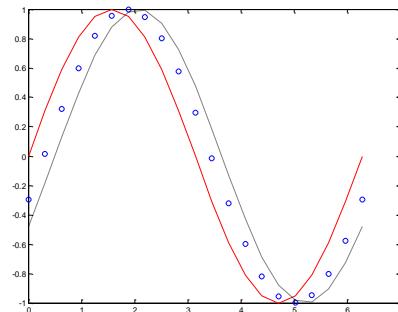
### Ex 1.1

```
x=0:pi/10:2*pi;
y1=sin(x);
plot(x,y1);
grid on;
hold on;
y2=cos(x);
plot(x,y2);
figure ;
y3=exp(cos(x));
plot(x,y3);
```



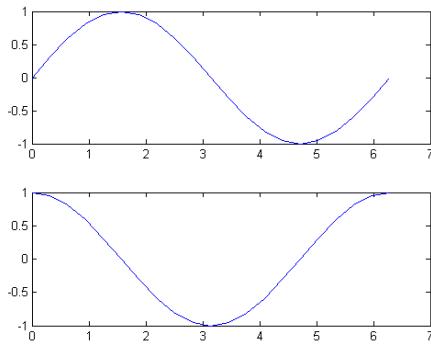
### Ex 1.2

```
x=0:pi/10:2*pi;
y1=sin(x);
y2=sin(x-0.3);
y3=sin(x-0.5);
plot(x,y1,'r',x,y2,'ob',x,y3,'k') ;
```



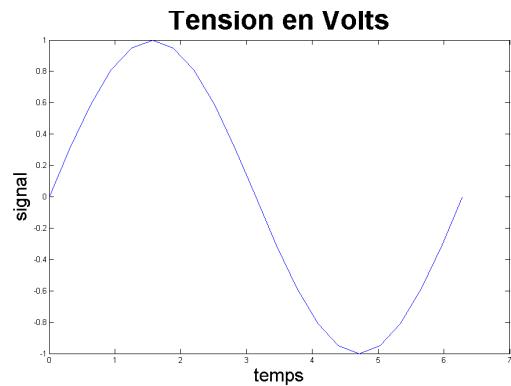
### Ex. 1.3

```
x=0:pi/10:2*pi;
y1=sin(x);
y2=cos(x) ;
subplot(2,1,1) ;
plot(x,y1);
subplot(2,1,2) ;
plot(x,y2);
```



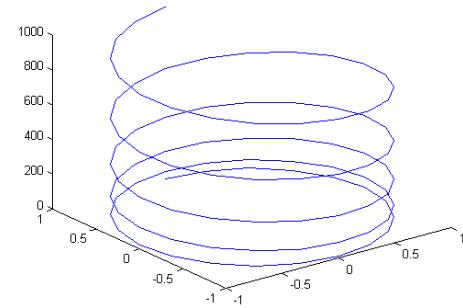
Ex. 1.4

```
x=0:pi/10:2*pi;
y1=sin(x);
plot(x,y1);
xlabel('temps','FontSize',24);
ylabel('signal','FontSize',24);
title('Tension en Volts','FontName','helvetica','FontSize',36,'FontWeight','bold');
```



Ex. 1.5

```
t=0:pi/10:10*pi;
x=sin(t);
y=cos(t);
z=t.^2;
plot3(x,y,z);
```



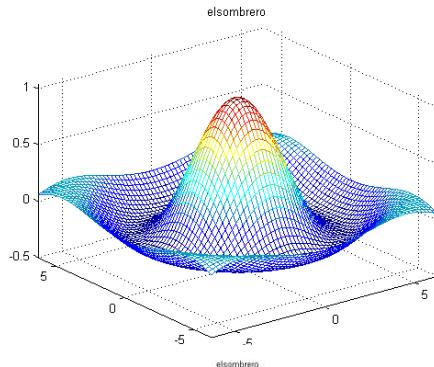
Ex. 1.6

Dans elsombrero.m :

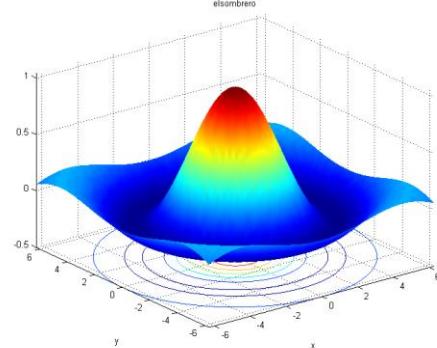
```
function z= elsombrero(x,y)
r = sqrt(x.^2 + y.^2);
z = sin(r)./r;
```

à partir de la fenêtre de commande :

```
ezmesh( @elsombrero );
```

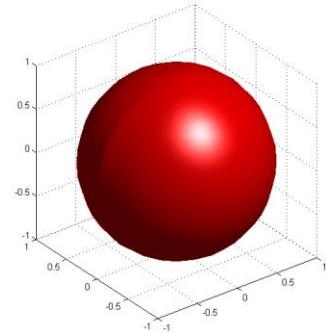


```
ezsurf( @elsombrero );
shading interp;
```

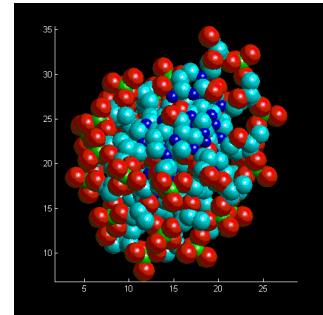


### Ex. 2.1

```
[X, Y, Z] = sphere(20);  
surf (X,Y,Z,'FaceColor','red','EdgeColor','none');  
axis equal ;  
lighting phong ;  
camlight right ;
```



### Ex. 2.2



Rôle de chaque appel de uicontrol :

- h1 : titre ‘‘ ENSTA IN103 VIEW MOL’’
- h2: case ou l’on peut écrire le nom du fichier
- h3 : bouton load qui en le cliquant fait exécuter « close(b); prinmol; »

A la fin du fichier intermol.m, taper:

```
h4 = uicontrol(a,...  
'Units','characters',...  
'Callback','close(a); close(b);',...  
'ListboxTop',0,...  
'Position',[60 4 14 2],...  
'String','Quit',...  
'Tag','Quit');
```

