```
syms x y
>> f=cos(x)*exp(x-y^2)

f =

exp(- y^2 + x)*cos(x)

>> ezsurf(f)
>> ezsurf(f,[-2,2,-2,2])

syms x y
>> f=inline('x.*y-(x.^3)/3','x','y')

f =

     Inline function:
     f(x,y) = x.*y-(x.^3)/3

>> fx=inline('y-x.^2','x','y')

fx =

     Inline function:
     fx(x,y) = y-x.^2

>> fy=inline('x','x','y')

fy =

     Inline function:
     fy(x,y) = x

>> x=-2:.05:2; y=x;
>> [X,Y]=meshgrid(x,y);
>> Z=f(X,Y);
>> levels=[-6:.5:6];
>> contour(X,Y,Z,levels)
>> hold on
>> xx=-2:.2:2; yy=xx;
>> [XX,YY]=meshgrid(xx,yy);
>> U=fx(XX,YY); V=fy(XX,YY);
>> quiver(XX,YY,U,V)
>> axis equal
>> hold off
>>

syms x y
>> f=inline('(1-y.^2).*cos(x)','x','y')
```

```
f =

    Inline function:
    f(x,y) = (1-y.^2).*cos(x)
>> ezsurf(f,[-1,1,-1,1])
>> hold on
>> l=inline('.8233-.1699*(x-.2)+.7841*(y+.4)','x','y')

l =

    Inline function:
    l(x,y) = .8233-.1699*(x-.2)+.7841*(y+.4)

>> qsurf(l,[-.3,.7,-.9,.1],10)
>> hold off
>>
```