

```
>> syms x y z t u v r theta
>> f=inline('9-x.^2-y.^2','x','y')
```

```
f =
```

```
Inline function:
f(x,y) = 9-x.^2-y.^2
```

```
>> x=-3:.2:3; y=x;
>> [X,Y]=meshgrid(x,y);
>> Z=f(X,Y);
```

```
>> surf(X,Y,Z)
>> hold on
>> g=inline('0*x+0*y','x','y');
>> [XX,YY]=meshgrid(x,y);
>> z=g(XX,YY);
>> surf(XX,YY,z)
>> hold off
>> int(int(18*r^3*cos(t)^2-2*r^5*cos(t)^2+2*r^3*sin(t)^2-2*r^3*cos(t)*sin(t)+81*r-
18*r^3+r^5,r,0,3),t,0,2*pi)
```

```
ans =
```

```
405*pi
```

```
>>
>> int(int(int((3*z+1)*r,z,0,9-r^2),r,0,3),t,0,2*pi)
```

```
ans =
```

```
405*pi
```

```
>>
```