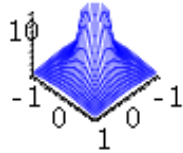


```

> with(plots):
> plot3d(cos(x*y), x=-3..3, y=-3..3, axes=framed):
> plot3d(cos(x*y), x=-3..3, y=-3..3, axes=framed, style=hidden,
color=blue):
> plot3d(1/(x^2+y^2), x=-1..1, y=-1..1, view=0..10, grid=[25,
25], style=hidden,color=blue, axes=framed);

```



```

> spacecurve([t*cos(2*Pi*t), t*sin(2*Pi*t), 2+t,t=0..10],
numpoints=400, color=red, thickness=2, axes=framed);

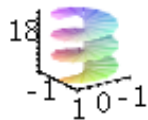
```



```

> plot3d([r*cos(phi), r*sin(phi), phi], r=0..1, phi=0..6*Pi,
grid=[15,45], style=hidden, orientation=[55,70], axes=framed);

```



```

> implicitplot3d( x^3 + y^3 + z^3 + 1 = (x + y + z+1)^3,x=-2..2,
y=-2..2,z=-2..2,grid=[13,13,13], style=patchnogrid, axes=
framed);

```



```

> s:=sphereplot(1, theta=0..2*Pi, phi=0..Pi, style=patch,
scaling=constrained):
> c:=cylinderplot(1/2, theta=0..2*Pi, z=-2..2, style=patch,
scaling=constrained):
> display3d({s,c}, axes=none, scaling=constrained):
> U:=log(sqrt((x+1)^2+y^2)) + log(sqrt((x-1)^2+y^2)) + log(sqrt(
(y+1)^2+x^2)) + log(sqrt((y-1)^2+x^2)):
> contourplot(U, x=-3/2..3/2, y=-3/2..3/2, contours=30, grid=
[50,50], color=black):
> plot3d(20*exp(-x^2-y^2)-10,x=0..2,y=-3..3, style=patchcontour,
contours=15, axes=framed):

```

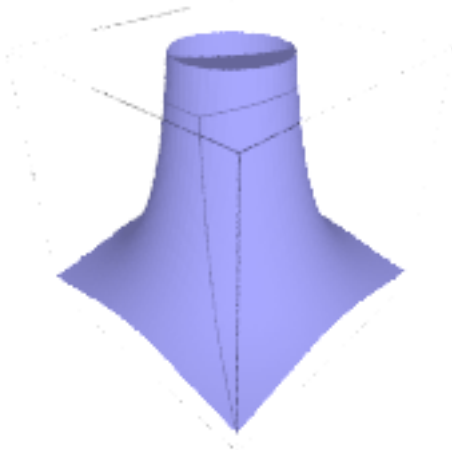
```
var('y'); o1=plot3d(cos(x*y),(x,-3,3),(y,-3,3))
```

y

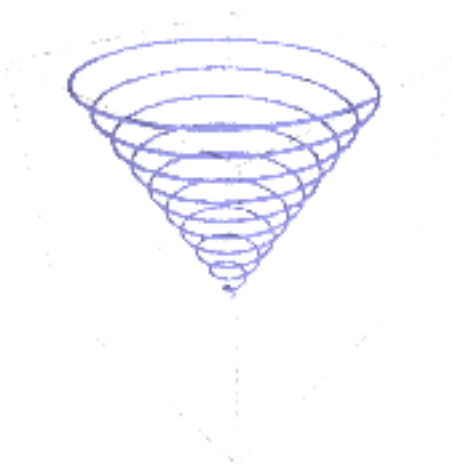
```
o2=plot3d(cos(x*y),(x,-3,3),(y,-3,3), frame=False, color='blue', mesh=True)
```

```
var('z'); implicit_plot3d(z==1/(x^2+y^2),(x,-1,1),(y,-1,1),(z,0,6), mesh=True, \ viewer='tachyon', figsize=2)
```

z

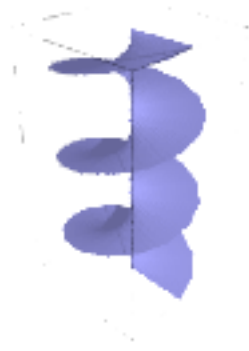


```
t=var('t'); parametric_plot3d((t*cos(2*pi*t), t*sin(2*pi*t), 2+t), (t,0,10), \ plot_points=400, thickness=3, viewer='tachyon', figsize=2)
```

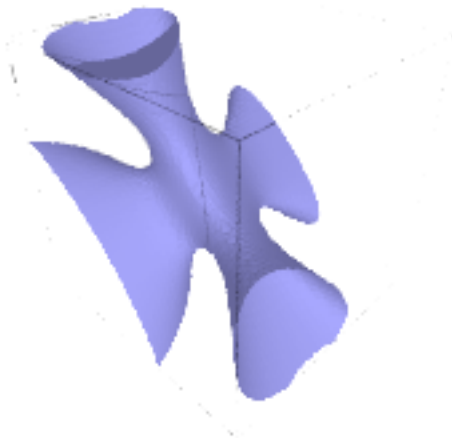


```
var('r, phi'); parametric_plot3d((r*cos(phi), r*sin(phi), phi), (r,0,1), (phi,0,6*\ pi), plot_points=[15,45], mesh=True, aspect_ratio=[5,5,1], viewer='tachyon', \ figsize=2)
```

(r, phi)



```
implicit_plot3d( (x^3 + y^3 + z^3 + 1 == (x + y + z + 1)^3), (x, -2, 2), (y, -2, 2), (z, -2, 2), mesh=True, viewer='tachyon', figsize=2)
```



```
s=spherical_plot3d(1,(x,0,2*pi),(y,0,pi), aspect_ratio=[1,1,1], opacity=0.75)
```

```
c=cylindrical_plot3d(.5, (x,0,2*pi), (y,-2,2), aspect_ratio=[1,1,1], mesh=True )
```

```
(s+c).show(frame=False, aspect_ratio=[1,1,1], viewer='tachyon', figsize=2)
```

```
U=log(sqrt((x+1)^2+y^2)) + log(sqrt((x-1)^2+y^2)) + log(sqrt((y+1)^2+x^2)) + log(\sqrt((y-1)^2+x^2))
```

```
o3=contour_plot(U, (x,-1.5, 1.5), (y,-1.5, 1.5), contours=20, fill=false, \linewidths=3)
```

```
frames=[plot(sin(t*x), (x,-10,10)) for t in range(1,11)];a=animate(frames)
```

```
a.gif(savefile='animace.gif')
```