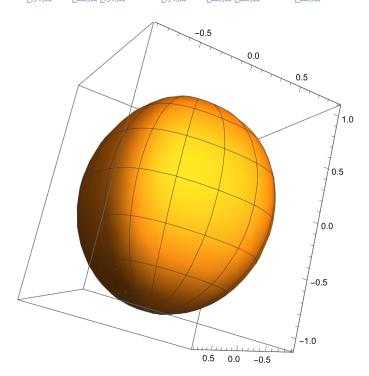


#### In[\*]:= ParametricPlot3D[

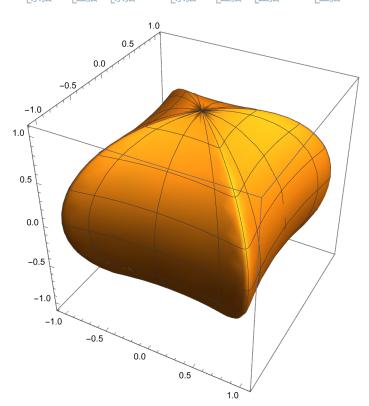
绘制三维参数图

Out[ • ]=

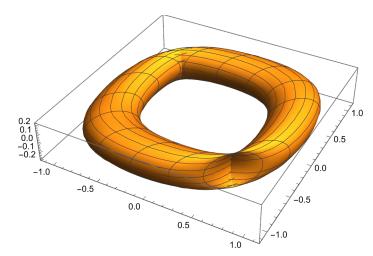


### In[\*]:= ParametricPlot3D[

绘制三维参数图

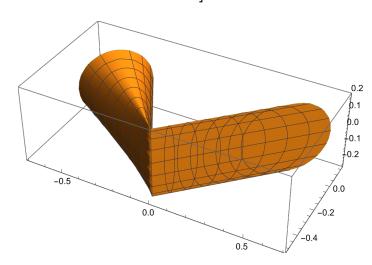


0.2 Sin[y]}, {t, 0, 2
$$\pi$$
}, {y, 0, 2 $\pi$ }]



ParametricPlot3D 
$$\left[\left\{\left\{t+0.2\,\mathrm{Sin}[v]\,\sqrt{2}\,t,\,\mathrm{Abs}[t]-0.5+0.2\,\mathrm{Sin}[v]\,\sqrt{2}\,t,\,0.2\,\mathrm{Cos}[v]\right\}\right\}$$
, 上绘制三维参数图 上正弦 上杂弦

$$\{t, -0.5, 0.5\}, \{v, 0, 2\pi\}$$

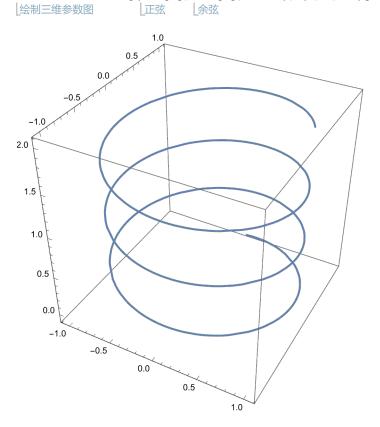


### In[\*]:= ParametricPlot3D[{Sin[u], Cos[u], u / 10}, {u, 0, 20}]

绘制三维参数图

正弦

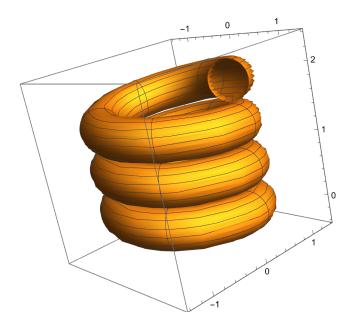
Out[ • ]=



ln[.] = a = 0.3;

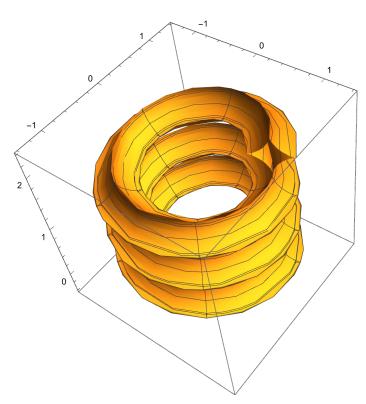
#### ParametricPlot3D[

绘制三维参数图



# |In[\*]:= ParametricPlot3D[ | 上会制三维参数图

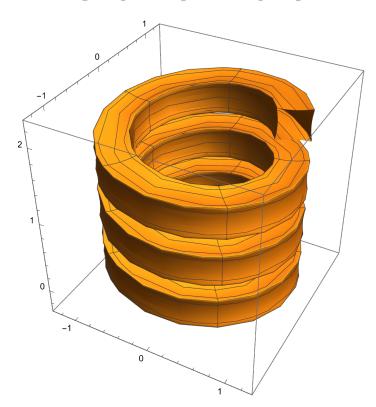
 $\left\{\left(1+a\,Sin[v]^{3}\right)\underset{\square:\text{EX}}{Sin[u]},\,\left(1+a\,Sin[v]^{3}\right)\underset{\square:\text{EX}}{Cos[u]},\,a\,Cos[v]^{3}+u\,/\,10\right\},\,\{u,\,0,\,20\},\,\{v,\,0,\,2\,\pi\}\right]$ 



### In[\*]:= ParametricPlot3D[{(1+0.2Sin[2Cos[t]])Sin[u],

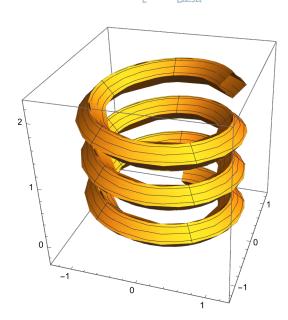
上 全制三维参数图 上正弦 上 定弦 上正弦

Out[ • ]=



### In[ • ]:= ParametricPlot3D[

绘制三维参数图

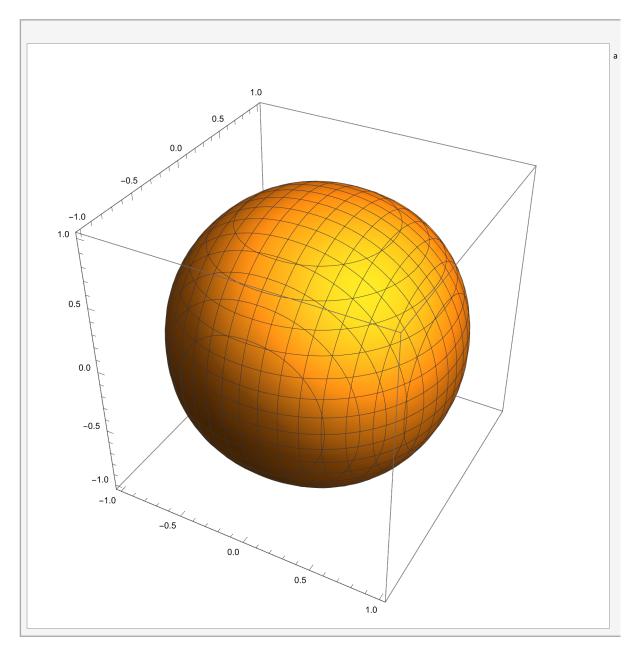


## In[\*]:= Manipulate[

交互式操作

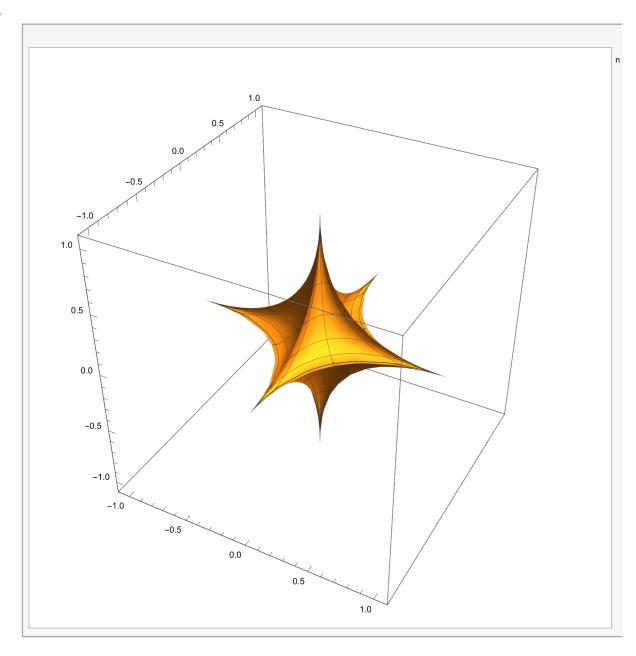
ContourPlot3D  $[Abs[x]^a + Abs[y]^a + Abs[z]^a = 1^a, \{x, -1, 1\}, \{y, -1, 1\}, \{z, -1, 1\},$  上三维等高线

{a, 0.5, 10}]



# In[◈]:= Manipulate └交互式操作

ParametricPlot3D 上绘制三维参数图



RevolutionPlot3D 
$$\left[\left\{ \text{Abs}\left[\cos\left[\mathbf{u}\right]\right]^{\frac{2}{n}}\right\} \right] = \left[\cos\left[\mathbf{u}\right]\right]$$
 人会制三维旋转图

1 + Abs [Sin[u]] 
$$\frac{2}{n}$$
 Sign[Sin[u]]  $\left\{u, -\frac{\pi}{2}, \frac{\pi}{2}\right\}$ ],

