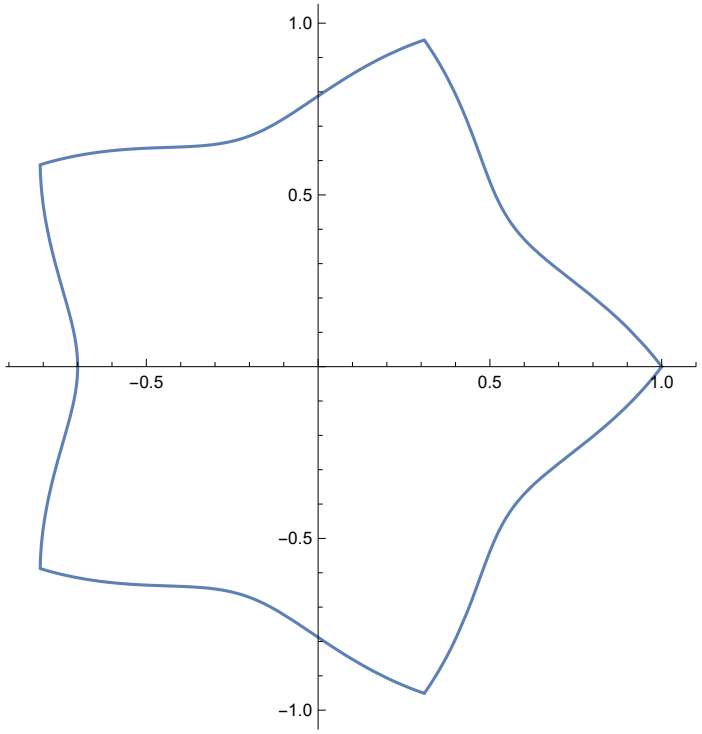
Star

先准备好2D曲线

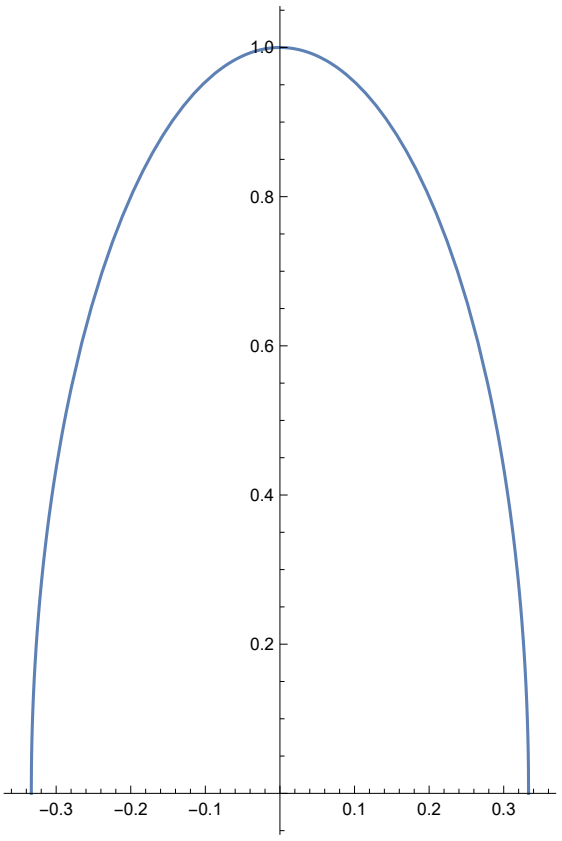
In[ ]:=
```
ParametricPlot[{Cos[θ], Sin[θ]} (1 - 0.3 Abs@Sin[5 / 2 θ]), {θ, 0, 2 π}]
```
绘制参数图 余弦 正弦 ⋯ 正弦

Out[ ]=



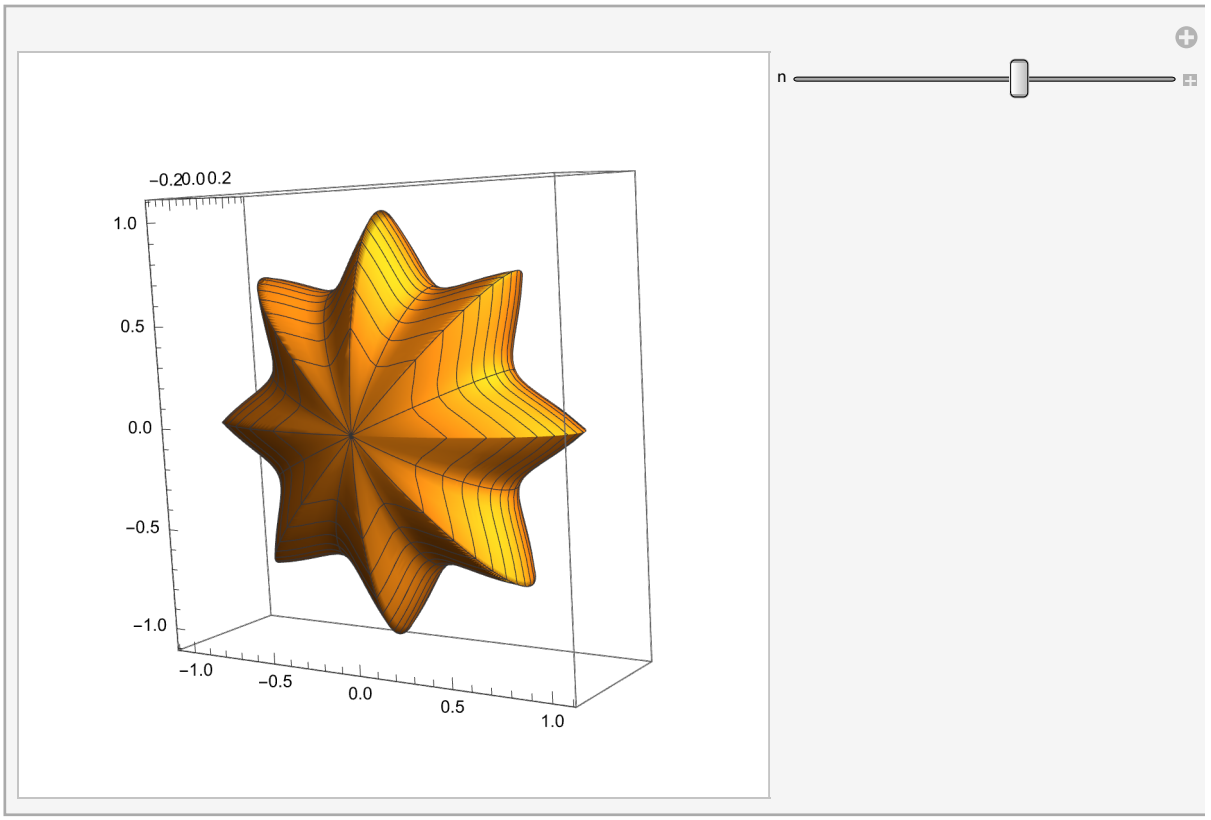
In[ ]:=
```
ParametricPlot[{d / 3, Sqrt[1 - d^2]}, {d, -1, 1}]
```
绘制参数图

Out[ ]=



In[5]:=
```
Manipulate[
 ParametricPlot3D[{Cos[θ] r, d / 3, Sin[θ] r} /. r → Sqrt[1 - d^2] (1 - 0.3 Abs@Sin[n / 2 θ]),
  {θ, 0, 2 π}, {d, -1, 1}, PlotPoints → 50], {n, 5, 10, 1}]
```

Out[5]=

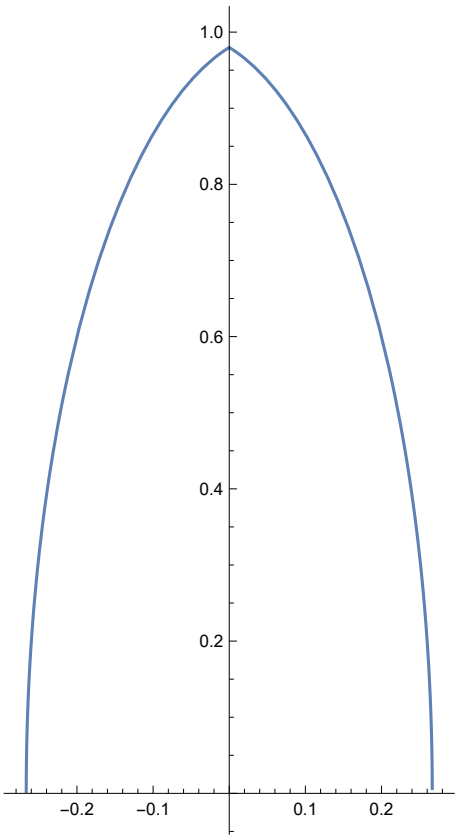


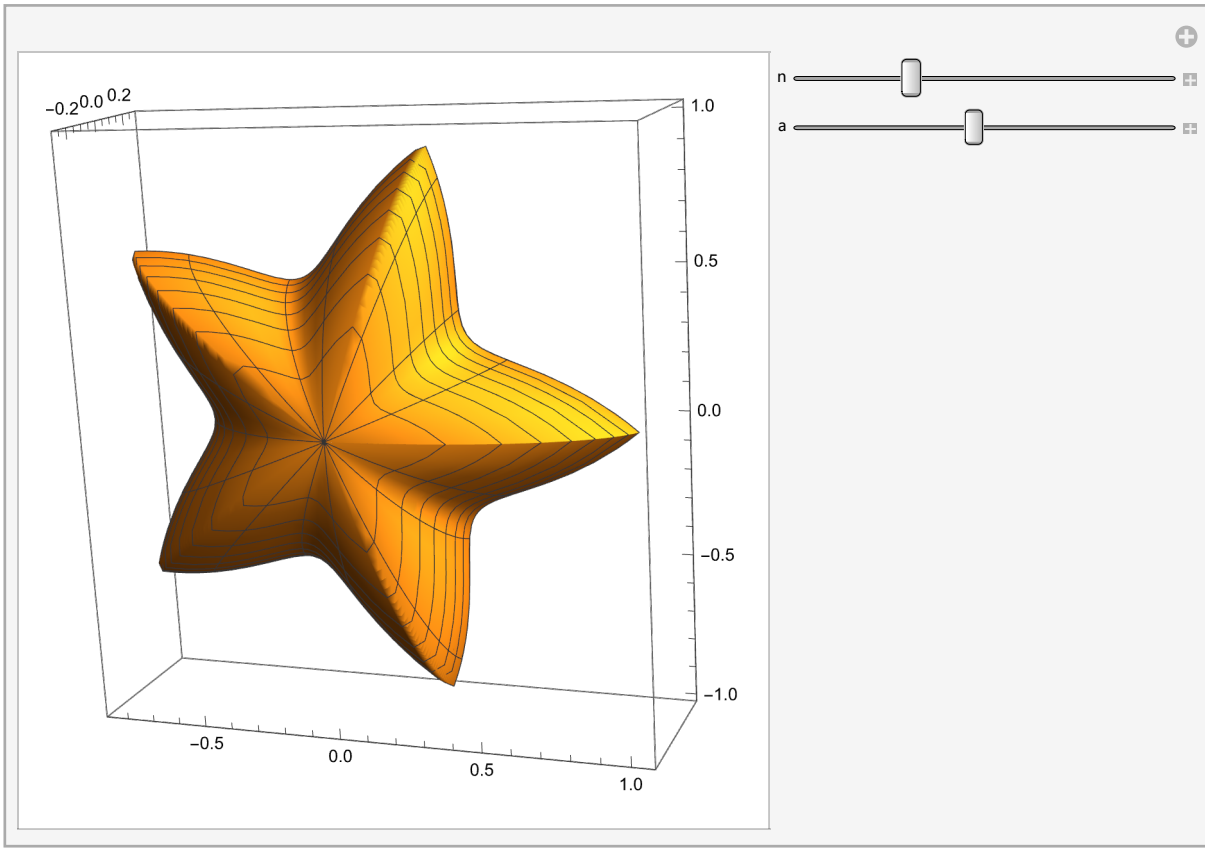
太丑了

换一个侧面曲线

In[11]:=
```
ParametricPlot[{d / 3, √(1 - (Abs@d + 0.2)^2)}, {d, -1, 1}]
```
绘制参数图

Out[11]=



In[14]:=
```
Manipulate[ParametricPlot3D[
  {Cos[θ] r, d / 3, Sin[θ] r} /. r → √(1 - (Abs@d + 0.2)^2) (1 - a Abs@Sin[n / 2 θ]),
  {θ, 0, 2 π}, {d, -1, 1}, PlotPoints → 50], {{n, 5}, 3, 10, 1}, {{a, 0.4}, 0.1, 0.9}]
```
交互式操作 绘制三维参数图 余弦 正弦 … 正弦 绘图点

Out[14]=