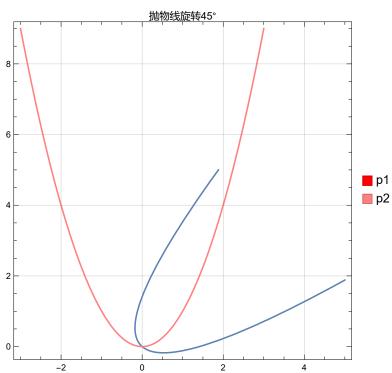
2D 旋转

```
ln[*]:= p1 = ContourPlot[(x - y)<sup>2</sup> == \sqrt{2}(x + y), {x, -1, 5}, {y, -1, 5}]; 
 [绘制等高线
       p2 = Plot[x^2, \{x, -3, 3\}, PlotStyle \rightarrow \{Pink\}];
                                 绘图样式 粉色
       Legended [
        Show[p1, p2,
        显示
         PlotLabel → "抛物线旋转45°",
         绘图标签
         PlotRange → Automatic,
         绘制范围
                     自动
         GridLines → Automatic,
         网格线
                      自动
         AxesLabel \rightarrow {"x", "y"}
         坐标轴标签
        SwatchLegend[{Red, Pink}, {"p1", "p2"}]
                       红色 粉色
Out[ • ]=
```



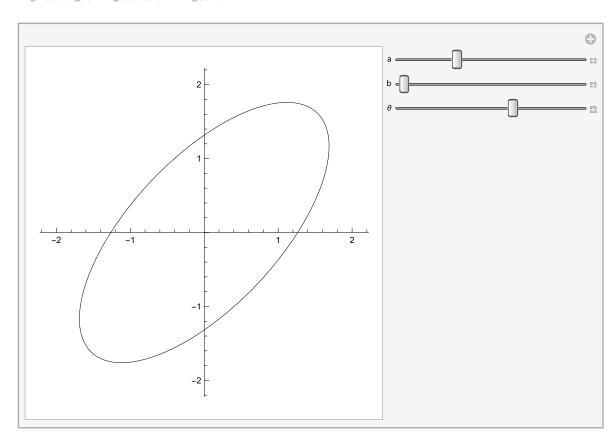
旋转的椭圆

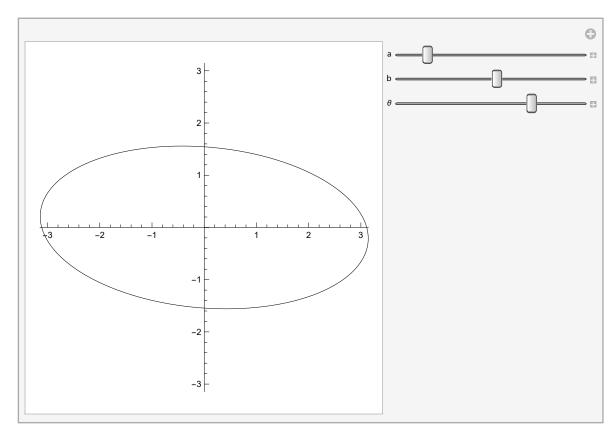
In[*]:= Manipulate[

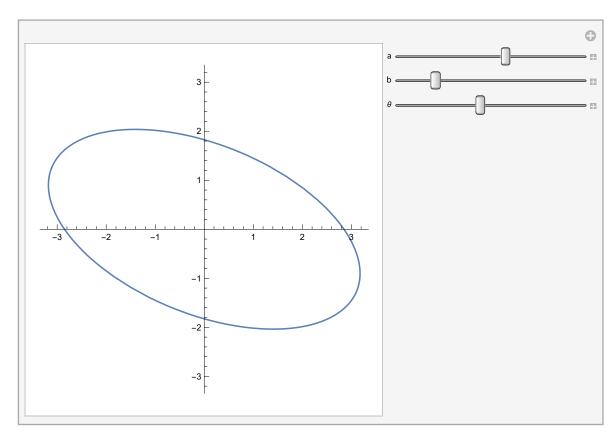
交互式操作

Axes \rightarrow True, PlotRange \rightarrow Max[a, b]], {a, 1, 5}, {b, 1, 5}, { θ , 0, 2 π }]

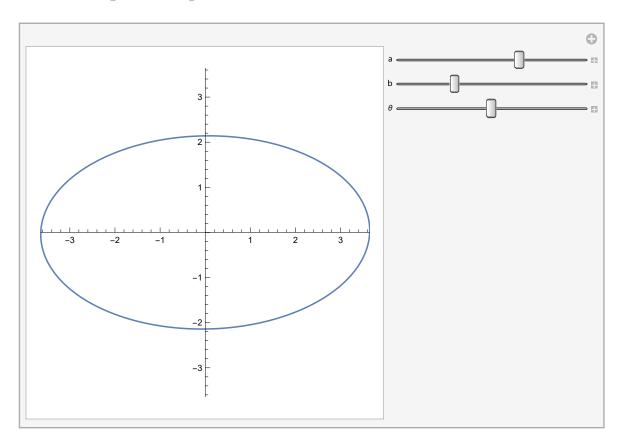
| 上坐标轴 | 真 | 上绘制范围 | 上最大值



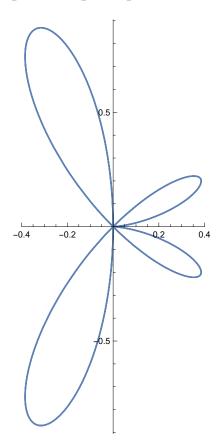


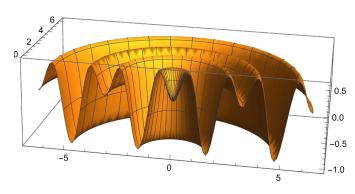


 $\{x, 0, 2\pi\}$, PlotRange $\rightarrow Max[a, b]$, $\{a, 1, 5\}$, $\{b, 1, 5\}$, $\{\theta, 0, 2\pi\}$] 绘制范围 最大值

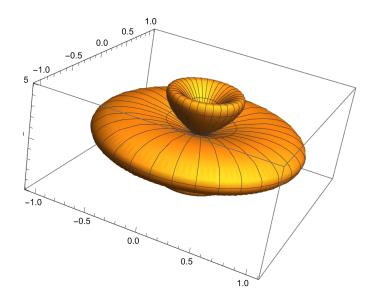


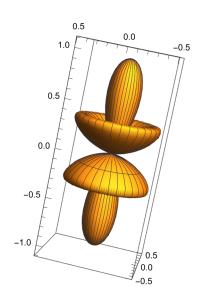
Out[•]=





Out[•]=



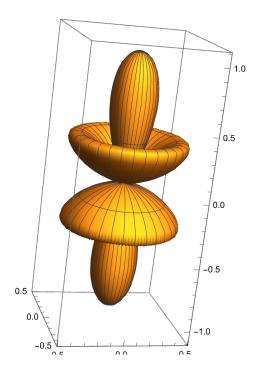


In[*]:= ParametricPlot3D[

绘制三维参数图

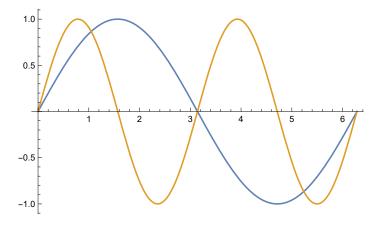
 $\{\sin[x] \sin[3x] \cos[x] \cos[\theta], \sin[x] \sin[3x] \cos[x] \sin[\theta], \sin[x] \sin[3x] \sin[x] \}$ $\{x,0,2\pi\}$, $\{\theta,0,\pi\}$, RotationAction \rightarrow "Clip", PlotPoints \rightarrow 30] 上旋转操作 」 原切 上绘图点

Out[•]=

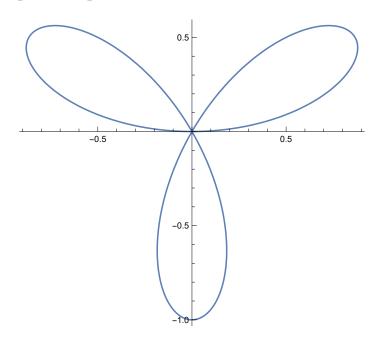


$ln[*]:= Plot[{Sin[x], Sin[2x]}, {x, 0, 2\pi}]$

上绘图 上正弦 上正弦



Out[•]=



SphericalPlot3D[Sin[x / 4] Sin[y / 4], {x, 0, π }, {y, 0, 3 π }, PlotPoints \rightarrow 50] 上 生球面图形 上 正弦 上 正弦 上 上 法图点

