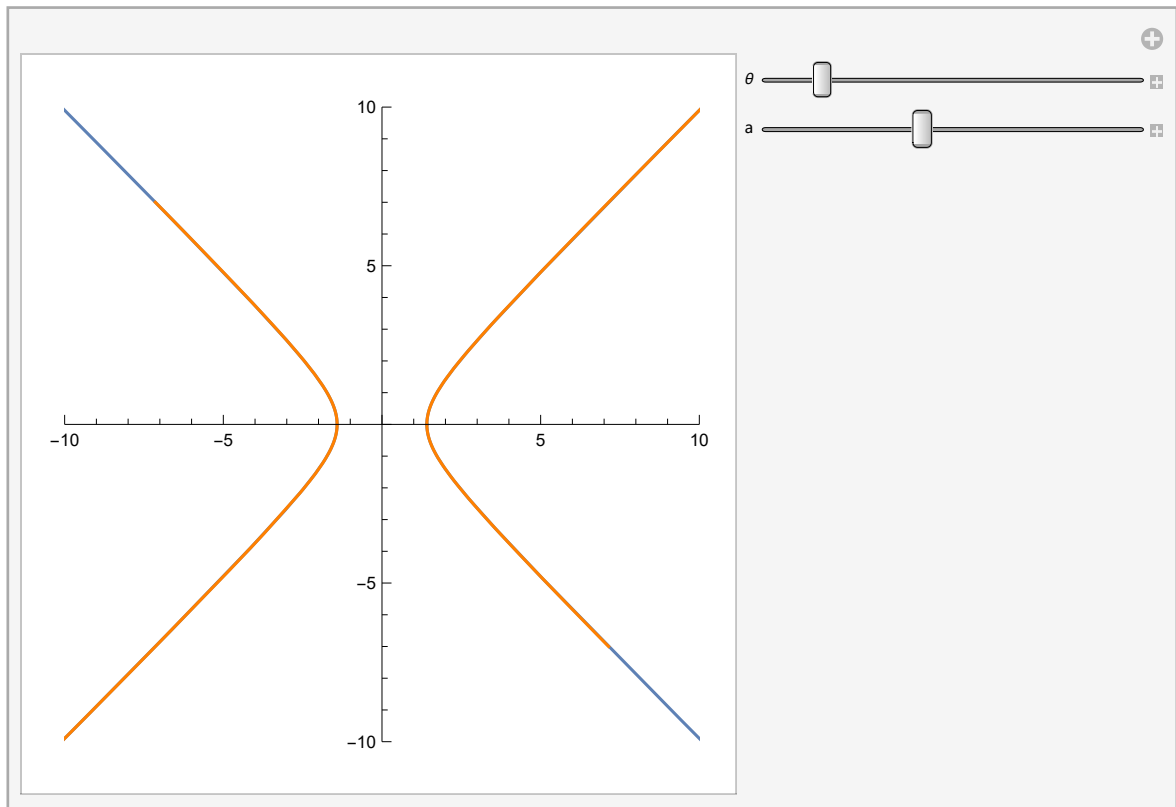


```

In[ ]:= Manipulate[
  |交互式操作|
  p1 = ParametricPlot[{a Sec[t], a Tan[t]},
    |绘制参数图| |正割| |正切|
    {t, 0, 2 π}, PlotRange → 10, Exclusions → { $\frac{\pi}{2}$ ,  $\frac{3\pi}{2}$ }]
    |绘制范围| |排除|
  p2 = ParametricPlot[{x,  $\frac{1}{x}$ }.RotationMatrix[θ], {x, -10, 10},
    |绘制参数图| |旋转矩阵|
    PlotRange → 10, PlotStyle → {Orange}, Exclusions → "Singularities"];
    |绘制范围| |绘图样式| |橙色| |排除|
  Show[p1, p2], {θ, 0, 2 π}, {a, 1, 2}]
  |显示|

```

Out[]:=



```

In[ ]:= Table[{Sec[t], Tan[t]}  $\sqrt{2}$ , {t, 0, 2 π}] // N
|表格| |正割| |正切| |数值运算|

```

Out[]:=

```

{{1.41421, 0.}, {2.61745, 2.20251}, {-3.39835, -3.09011}, {-1.42851, -0.201591},
{-2.16359, 1.63741}, {4.98556, -4.78077}, {1.47288, -0.411545}}

```

```
In[*]:= Table[{{Sec[t],  $\frac{1}{\text{Sec}[t]}$ }.RotationMatrix[ $\frac{\pi}{4}$ ]}, {t, 0, 2  $\pi$ }] // N
```

表格 正割 旋转矩阵 数值运算

```
Out[*]= {{1.41421, 0.}, {1.69078, -0.926673}, {-1.99344, 1.40492}, {-1.41429, 0.0142243},  
{-1.54399, 0.619597}, {2.69336, -2.2922}, {1.41538, -0.057496}}
```

投影

```
Out[*]=
```

1

```
Out[*]=
```

1.41421