复数学习

In[ ]:= `Manipulate[Table[a^I, {a, x}], {x, 1, 10, 1}]`
交互式操作 表格

Out[ ]=

In[ ]:= `I^I // N`
数值运算

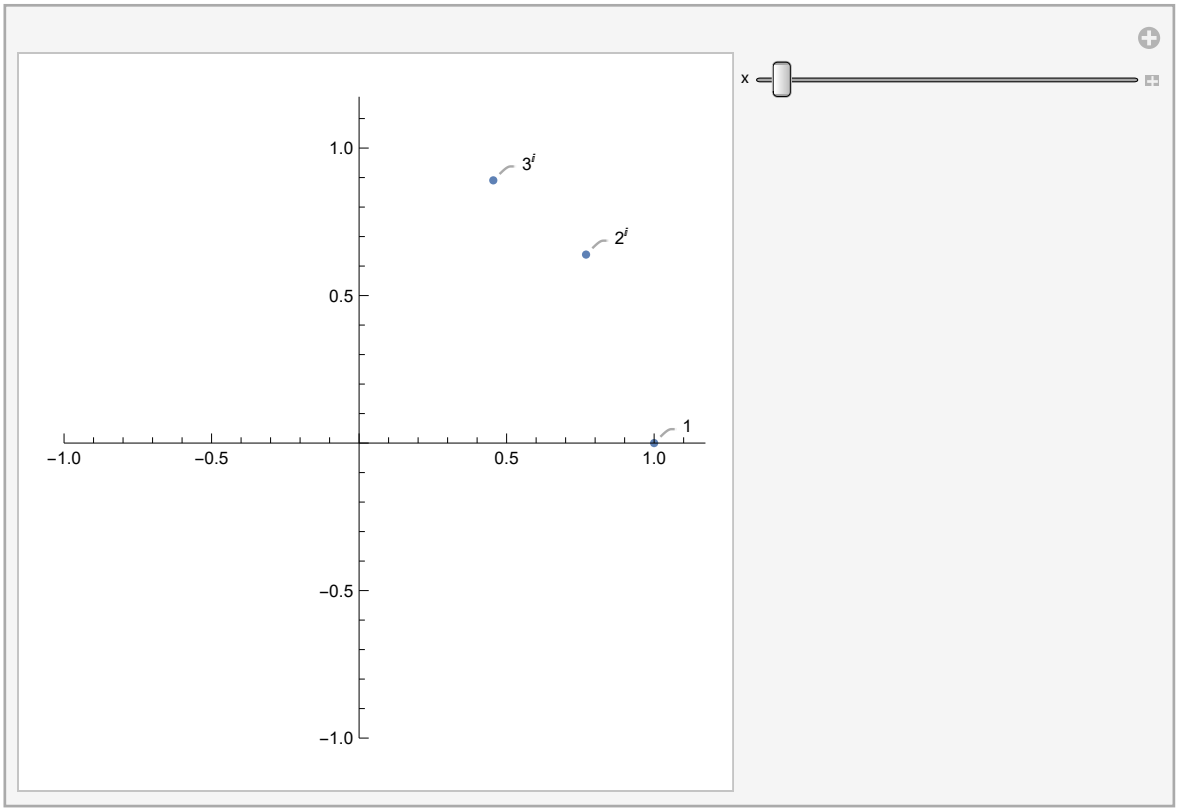
Out[ ]=

`0.20788 + 0. i`

In[ ]:= `Manipulate[ComplexListPlot[Callout[#, #] & /@ Table[a^I, {a, x}],`
交互式操作 复数列表图 标注 表格

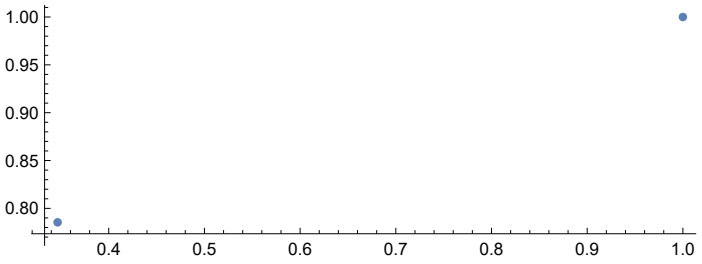
`PlotRange → {{-1, 1}, {-1, 1}}], {x, 1, 100, 1}]`
绘制范围

Out[ ]=



In[ ]:=
```
ComplexListPlot[{1 + I, Log[1 + I]}]
```
复数列表图 ··· 对数 虚数单

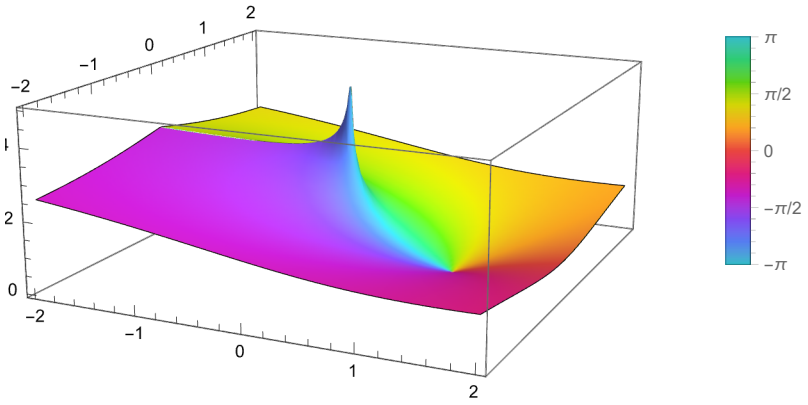
Out[ ]=




```
Manipulate[ComplexListPlot[Table {1 + I, Log[1 + I]}]
```
交互式操作 复数列表图 表格 ··· 对数 虚数单

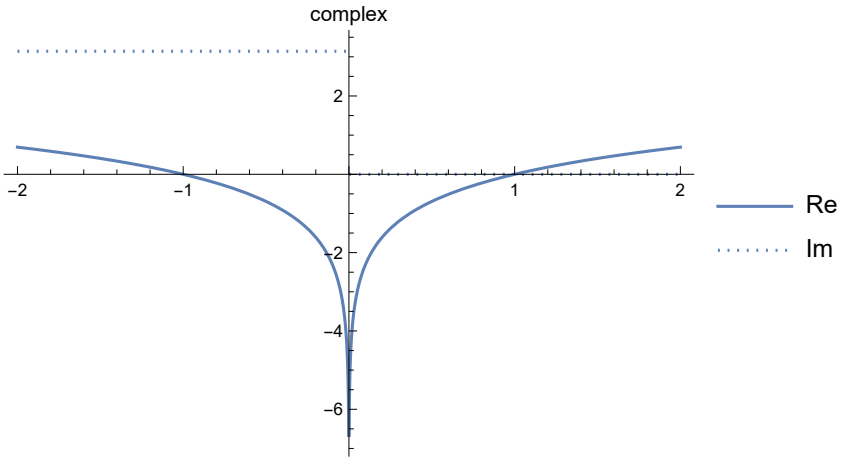
In[ ]:=
```
ComplexPlot3D[Log[z], {z, -2 - 2 I, 2 + 2 I}, PlotLabel → "complex",
 PlotLegends → Automatic]
```
三维复数图 对数 虚数单位 ··· 绘图标签
绘图的图例 自动

Out[ ]=



In[ ]:=
```
ReImPlot[Log[z], {z, -2, 2}, PlotLabel → "complex",
 PlotLegends → Automatic]
```
实虚部图 对数 绘图标签 绘图的图例 自动

Out[ ]=



In[ ]:=
```
3^-1
```

Out[ ]=

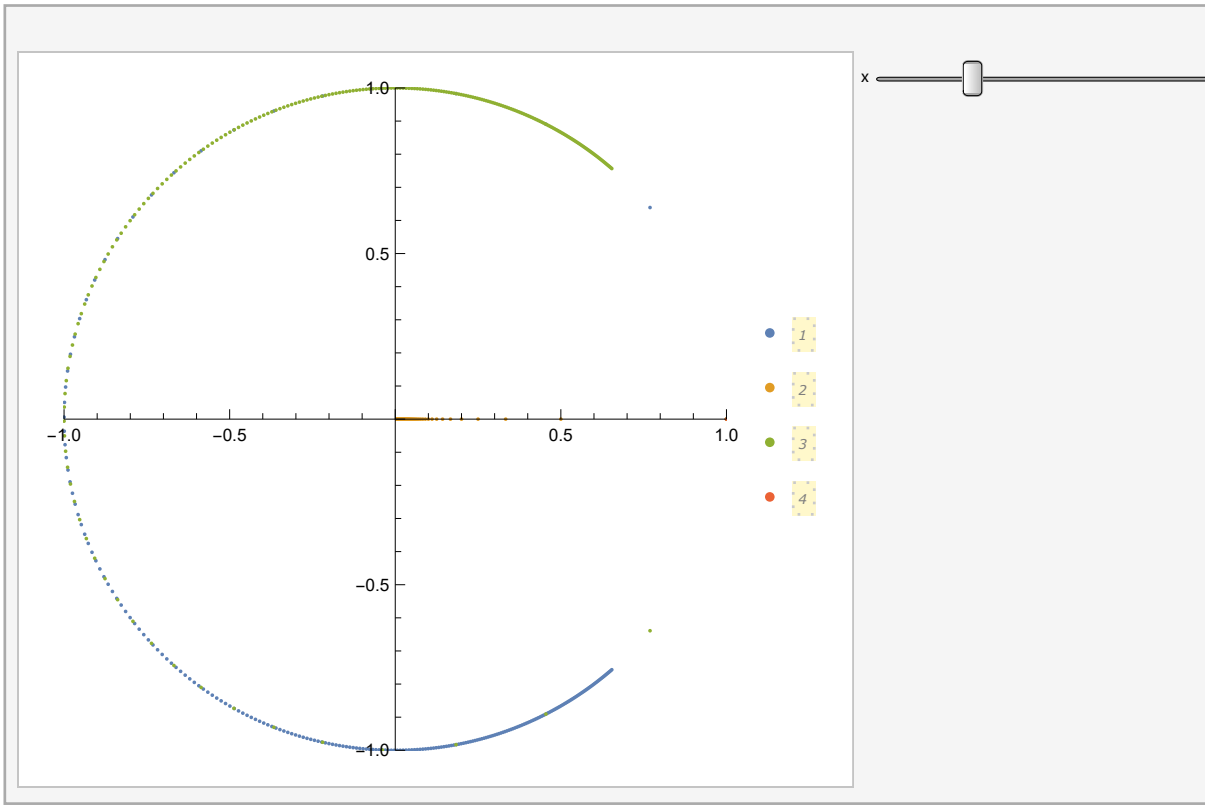
$$\frac{1}{3}$$

In[ ]:=
```
{Table[2, 3], Table[5, 2]}
```
表格 表格

Out[ ]=
```
{{2, 2, 2}, {5, 5}}
```

In[ ]:=
```
Manipulate[ComplexListPlot[
 {Table[a^I, {a, x}], Table[a^II, {a, x}], Table[a^III, {a, x}], Table[a^IIII, {a, x}]},
  PlotRange → {{-1, 1}, {-1, 1}},
  PlotLegends → Automatic], {x, 1, 1000, 1}]
```
交互式操作 复数列表图 表格 表格 表格 表格 绘制范围 绘图的图例 自动

Out[ ]=



In[ ]:=
```
Manipulate[ComplexListPlot[Table[Callout[x^I^a, x^I^a], {a, 4}],
  PlotRange → {{-1, 1}, {-1, 1}},
  PlotLegends → Automatic], {x, 1, 1000, 1}]
```
交互式操作 复数列表图 表格 标注 绘制范围 绘图的图例 自动

Out[ ]=