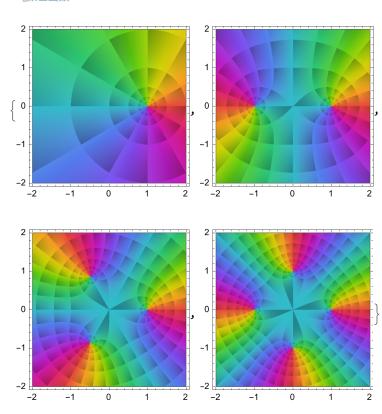
## 复数

Table [ComplexPlot [ $z^n$  - 1, {z, -2 - 2 I, 2 + 2 I}, 表格 上海角图 上處数单位

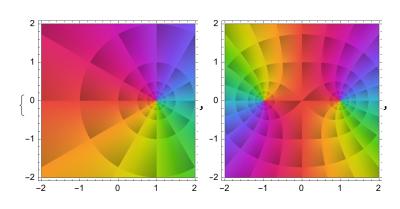
ColorFunction → "CyclicLogAbsArg"], {n, 1, 4}] [颜色函数

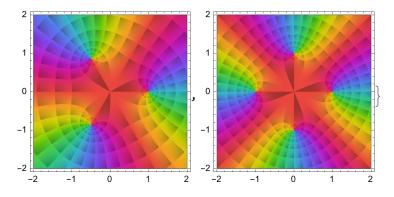
Out[ • ]=



ColorFunction → "CyclicLogAbsArg"], {n, 1, 4}] | 颜色函数

Out[ • ]=





$$In[\cdot]:=$$
 Product  $\left[ \cos [\theta] + I \sin [\theta] - z, \left\{ \theta, \left\{ \theta, \frac{2\pi}{3}, \frac{4\pi}{3} \right\} \right\} \right]$ 

Out[ • ]=

$$(1-z)\ \left(-\frac{1}{2}-\frac{\text{i}\ \sqrt{3}}{2}-z\right)\ \left(-\frac{1}{2}+\frac{\text{i}\ \sqrt{3}}{2}-z\right)$$

In[a]:= Simplify 
$$\left[ (1-z) \left( -\frac{1}{2} - \frac{\dot{n}}{2} \sqrt{3} - z \right) \left( -\frac{1}{2} + \frac{\dot{n}}{2} \sqrt{3} - z \right) \right]$$

Out[ • ]=

$$1-z^3$$

Solve 
$$\left[ (1-z) \left( -\frac{1}{2} - \frac{\dot{\mathbf{n}} \sqrt{3}}{2} - z \right) \left( -\frac{1}{2} + \frac{\dot{\mathbf{n}} \sqrt{3}}{2} - z \right) = 0$$
, z, Complexes  $\left[ \text{ by } \right]$ 

Out[\*]= 
$$\left\{\left\{z\rightarrow1\right\}\text{, }\left\{z\rightarrow-\frac{1}{2}-\frac{i\cdot\sqrt{3}}{2}\right\}\text{, }\left\{z\rightarrow-\frac{1}{2}+\frac{i\cdot\sqrt{3}}{2}\right\}\right\}$$