```
In[4]:= ClearAll["Global`*"]
           清除全部
           Ai = 0;
           Bi = 1;
           \mathsf{T}[\theta_{-}] := \frac{1}{2} * \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} \cdot \begin{pmatrix} e^{i \cdot \theta} & 0 \\ 0 & 1 \end{pmatrix} \cdot \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix}
           \mathsf{Ao}[\theta_{-}] := \left\{\mathsf{T}[\theta] \cdot \begin{pmatrix} \mathsf{Ai} \\ \mathsf{Bi} \end{pmatrix}\right\} [[1]][[1]][[1]]
           \mathsf{Bo}[\theta_{-}] := \left\{\mathsf{T}[\theta]. \left( \begin{smallmatrix} \mathsf{Ai} \\ \mathsf{Bi} \end{smallmatrix} \right) \right\} [[1]][[2]][[1]]
           {\tt Plot[\{Abs[Ao[\theta]],\,Re[Ao[\theta]],\,Im[Ao[\theta]],\,Abs[Bo[\theta]],\,Re[Bo[\theta]],\,Im[Bo[\theta]]\},}
                                      实部 虚部 绝对值
                                                                                             实部
              \{\theta, 0, 2\pi\}, PlotLegends \rightarrow "Expressions", AxesLabel \rightarrow \{\theta\},
              Ticks \rightarrow {Range[0, 2\pi, \pi/4], Range[-1, 1, 0.5]},
                                                                 范围
              GridLines \rightarrow {Range[0, 2\pi, \pi/4], Range[-1, 1, 0.5]}]
                                                                                                                 – |Ao(θ)|
            0.5
                                                                                                                - Re(Ao(\theta))
                                                                                                                 - Im(Ao(\theta))
Out[10]=
                                                                                                                 – |Bo(θ)|
                                                                                                               - Re(Bo(\theta))
            -0.5
                                                                                                               -- Im(Bo(\theta))
             -1.
           Plot[{Abs[Ao[\theta]], Re[Ao[\theta]], Im[Ao[\theta]]}, {\theta, 0, 2 \pi}, PlotLegends \rightarrow "Expressions",
           绘图 绝对值
                                       实部
                                                        虚部
                                                                                                   绘图的图例
              AxesLabel \rightarrow \{\theta\}, Ticks \rightarrow \{Range[0, 2\pi, \pi/4], Range[-1, 1, 0.5]\},
                                           刻度    范围
              GridLines \rightarrow {Range[0, 2\pi, \pi/4], Range[-1, 1, 0.5]}]
             0.5
                                                                                                                 – |Ao(θ)|

    Re(Ao(θ))

Out[12]=
                                                                                                                 - Im(Ao(\theta))
           -0.5
```

