$\sin z$
$\cos z$
z^n
$z^{\frac{1}{n}}$
E
E
E
E
E
E
E
E
E
E
$d(E, z) = \inf_{z' \in E} |z - z'|$
z
E
E
$z' \in E$
$d(E, z) = |z - z'|$
$d(E_1, E_2) = \inf_{z \in E_1, z' \in E_2} |z - z'|$
E_1
E_2
E_1
E_2
z_1
z_2
E_1
E_2
$d(E_1, E_2) = |z_1 - z_2|$
P
P
P
$\{0, 2, 4, \cdots\}$
P
P
P
P
1
$E \subseteq G$
G
$z_0 \in E$
z_0
$U_\epsilon(z_0) = \{z \in G : |z_0 - z| < \epsilon\}$
E
$E \subseteq G$
G
E
G
E
G
Z
$E =$
$f(G)$
G
W
$w =$
$f(z)$
$w =$
$f(z)$
G
$z_0 \in G$
ϵ
$U_\epsilon(w_0)$
$w_0 =$
$f(z_0)$
δ
$U_\delta(z_0)$
z_0
$U_\epsilon(w_0)$
$z \in$
$U_\delta(z_0)$
$w =$
$f(z) \in$
$U_\epsilon(w_0)$
$w =$
$f(z)$