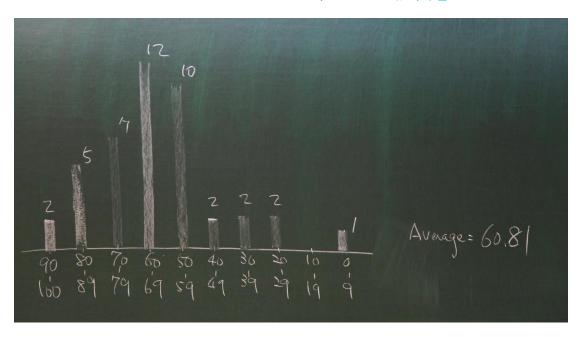
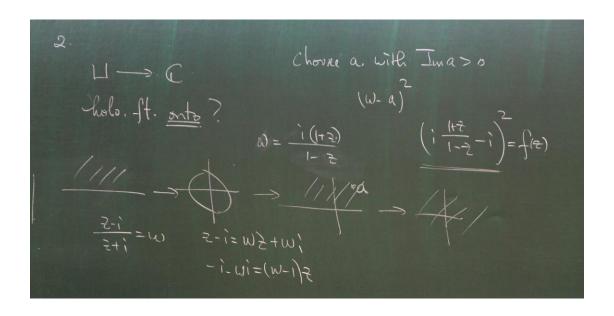
【10920 程守慶教授複變數函數論 / 第29堂版書】



1.
$$C = C \cdot \{2 \mid 12 \mid \leq 1\}$$
.
 $A = A \Rightarrow \{0,0\} \} \rightarrow C$
 $A = \{0,0\} \} \rightarrow C$

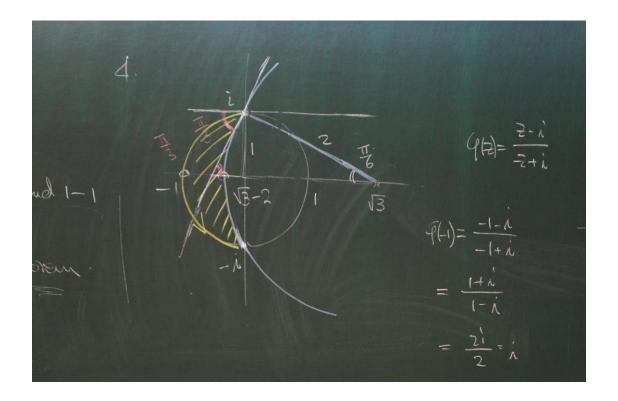


3.
$$72 \notin C$$
 domain

Simply-connected.

= $f(e)$ => $f(e)$ => $f(e)$ = $f(e)$ bounded and 1-1

By Riemann mapping theorem.



$$\frac{1}{2} = \frac{2 - \lambda}{2 + \lambda}$$

$$\frac{1 - \lambda}{1 - \lambda}$$

$$\frac{(9(\sqrt{3}-2)) = \sqrt{3}-2-i}{\sqrt{3}-2+i} = \frac{(6-4\sqrt{3})+2(2-\sqrt{2})i}{|\sqrt{3}-2+i|^2} = \frac{(6-4\sqrt{3})+2(2-\sqrt{2})i}{|\sqrt{3}-2+i|^2} = \frac{3}{9+1}$$

5.
$$x\beta = 1$$
 $(x^2 - \frac{1}{3})(\beta - \frac{1}{3}) = (\frac{1}{3})^2 = \frac{1}{9}$
 $x\beta = \frac{3 - 15}{2}$
 $y\beta = \frac{3 + 15}{2}$

$$|\mathcal{G}(0)| = |\mathcal{G}(\frac{3}{3})| = \frac{7 \cdot 3 \sqrt{5}}{2} < \frac{3 - \sqrt{5}}{2} = |\mathcal{G}(1)| = |\mathcal{G}(-1)|$$

$$\frac{2}{3 - \sqrt{5}} \mathcal{G}(\frac{3}{3})| = \frac{7 \cdot 3 \sqrt{5}}{2} = \frac{7 \cdot 3 \sqrt{5}}{3 - \sqrt{5}} = \frac{21 - 15 - 2\sqrt{5}}{4} = \frac{6 - 2\sqrt{5}}{2} = \frac{3 - \sqrt{5}}{2}$$