

工共 212 工業数学 IV

第 4 回 複素関数

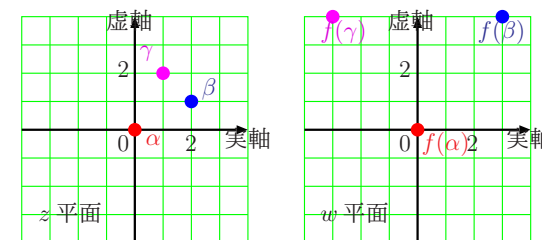
演習 4-1 解答 (1)

$$f(\alpha) = 0$$

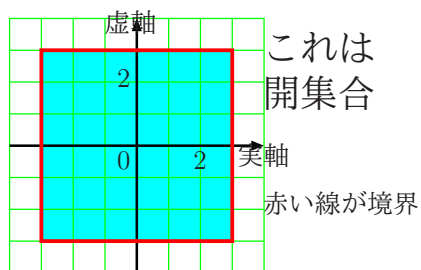
$$f(\beta) = 3 + 4i$$

$$f(\gamma) = -3 + 4i$$

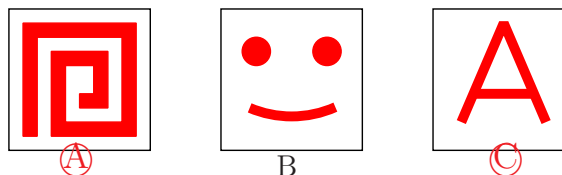
演習 4-1 解答 (2)



演習 4-2 解答



演習 4-3 解答



演習 4-4 解答

$$\lim_{z \rightarrow 0} \frac{z+i}{z+2i} = \boxed{1/2}$$

$$\lim_{z \rightarrow -i} \frac{2}{z-i} = \boxed{i}$$