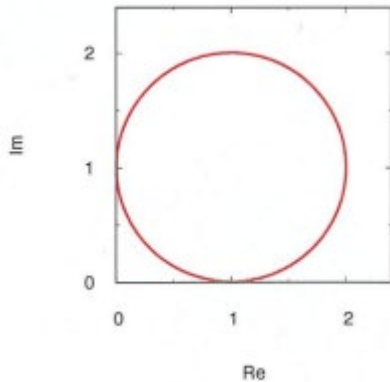


I・II・III・A・B  
(医学部医学科)

[I]

(1)



(2)  $k = 4 + 2\sqrt{2}$

[II]

(1)  $t = \sqrt{ab}$

(2)  $M = \frac{3}{4} - \frac{\sqrt{2}}{2}$

[III]

(1)  $\frac{1}{2}$

(2)  $y = -(2 + \sqrt{2})x + \sqrt{2} + 1$

(3)  $\frac{2}{3}$

[IV]

【出題の意図】 命題と論証および級数についての理解とその運用力を問う。