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covers the following top-
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formality, Contour Integra-
tion, Zeros and Poles, Ap-
plication to Evaluation of
Definite Real Integrals, Lo-
cal And Global Properties,
Convergence in Function
Theory, Dirichlet's
Problem, Periodic Func-
tions.

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25 75 100 11UMA6413 III
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ical Methods 4 15 45 60 ...
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preciated aspects of the
beauty of complex analy-
sis."

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4 1. COMPLEX FUNCTIONS
Exercise1.8.Considerthe
set of symbol-
 $sx+iy+ju+kv$, where $x, y,$
 u and v are real numbers,
and the symbols i, j, k sat-
isfy $i^2 = j^2 = k^2 = -1, ij =$
 $-ji = k, jk = -kj = i$ and $ki =$
 $-ik = j$. Show that using the-
se relations and calculat-
ing with the same formal
rules as in dealing with real-

numbers, we obtain a skew field; this is the set of complex numbers, here denoted \mathbb{C} , including the basic algebraic operations with complex numbers as well as the geometric representation of complex numbers in the euclidean plane. We will therefore without further explanation view a complex number $x+iy \in \mathbb{C}$ as representing a point or a vector (x,y) in \mathbb{R}^2 , and according to

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4 1. COMPLEX FUNCTIONS
Exercise 1.8. Consider the set of symbols $sx+iy+ju+kv$, where x, y, u and v are real numbers, and the symbols i, j, k satisfy $i^2 = j^2 = k^2 = -1, ij = -ji = k, jk = -kj = i$ and $ki = -ik = j$. Show that using these relations and calculating with the same formal rules as in dealing with real numbers, we obtain a skew field; this is the set

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