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Solutions Manual For
**MATHEMATICAL
METHODS**



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The Complex Number System.

The set $C = R \times R = \{(a, b) / a, b \in R\}$ is called the set of complex number if the following conditions are satisfied.

- i) $(a, b) + (c, d) = (a+c, b+d)$ (Addition)
- ii) $(a, b) \cdot (c, d) = (ac-bd, ad+bc)$ (Multiplication)
- iii) $K(a, b) = (Ka, Kb)$ where $K \in R$ (Scalar Multiple)
- iv) $(a, b) = (c, d)$ iff $a=c, b=d$ (Equality)

Note

$$(a, b) = a + bi$$

$a = \text{Real Part}$
 $b = \text{Imag Part}$

where $(a, b) \in C \neq a + bi \in C$

$$\therefore (a, b) = a(1, 0) + b(0, 1)$$

$$(a, b) = a \cdot 1 + b \cdot i = a + bi$$

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AW Rasmussen



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