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1 The Real and Complex

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Number Systems. 1. If r is rational ($r \neq 0$) and x is irrational, prove that $r+x$ and rx are irrational. Solution:

Let $r \in \mathbb{Q}; r \neq 0$. If $r+x \in \mathbb{Q}$, then $x = r + (r+x)$

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2Q. If $rx \in 2Q$, then $x =$
 $r^{-1}(rx) \in 2Q$. Take the
contrapositive of both
statements. 2.

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Let $x, y \in X$ and let c
be a scalar. Then. $(B$
 $A)(x + y) = B(A(x$
 $+ y)) = B(A(x) + A(y)) = B(A(x)) + B(A(y))$

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$$\begin{aligned} A(y) &= (B A)(x) + \\ & (B A)(y) (B A)(c \\ x) &= B(A(c x)) = B(\\ c A(x)) &= c B(A(x)) \\ &= c(B A)(x) \end{aligned}$$

which shows that $B A$ is
linear. Let $A \in L(X)$

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be invertible.

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Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be
a strictly increasing

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function such that $f(0) = 0$, which is subadditive, i.e.: $f(a + b) \leq f(a) + f(b)$ and let d be a metric. Then $f \circ d$ is a metric. That $f \circ d$ satisfies

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condition (a) follows
from the injectivity of
 f , and from the fact
that $f(0) = 0$.

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Chapter 2 _____

If we apply this with m
 $= 1, \dots, n - 1$, we
successively obtain. F_1
 $= F_2 \cdot G_1 = F_3 \cdot G_2$
 $\cdot G_1 = \dots = F_n \cdot G_{n-1}$
 $\cdot G_1 \cdot G_2 \cdot \dots \cdot G_{n-1}$ in some

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neighborhood of 0. By

(1), F_n is primitive,

so we can let $G_n = F_n$.

(b) Let F be the mapping

$(x, y) \mapsto (y, x)$ and

suppose $F = G_2 \circ G_1$ in

some neighborhood of the

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origin, where.

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(Rudin ...)

$U(P, f, \epsilon) = M \cup L$

$(P, f, \epsilon) = m \cup l$ in the
interval $[0, x]$ of P .

Because f is right-
continuous at 0 , both M
 l and $m \cup l$ converge to f

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(0) as $x \rightarrow 0$, so $f(x) \rightarrow f(0)$. (b) The statement is: f is continuous at 0 if and only if $f(x) \rightarrow f(0)$ and then $f(0) = f(0)$. The proof is similar to part

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Continuity (not

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Description. Book
Information: Walter
Rudin, Principles of
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3rd ed (3 print), McGraw-Hill Book Company, New York, 1985. This book contains eleven chapters, and I'll divide all exercises of each chapter into eleven

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parts, respectively.

Surely, some exercises are solved by others, and I'll write down the provider of the solutions of the exercises.

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Mathematical Analysis.

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solutions show every detail, every step and every theorem that I applied.

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It covers all the 285 exercises with detailed and completed solutions. As a matter of fact, my solutions show every detail, every step and every theorem that I

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Since a polynomial $p(z)$
of degree n has at most n
(distinct) roots, $B_p(z)$

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is a finite set. By the corollary to Theorem 2.12, the set $\{B_p(z) \mid S = p(z) \in P_n\}$ is at most countable. Since every positive integer is an algebraic number

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(consider the polynomial $z^n - 1$), the set of all algebraic numbers A is infinite.

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 x is irrational, prove
that $r+x$ and rx are
irrational. Solution:

Let $r \in \mathbb{Q}; r \neq 0$. If $r+x$

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$2Q$, then $x = r + (r + x)$
 $2Q$. If $rx \in 2Q$, then $x =$
 $r + (rx) \in 2Q$. Take the
contrapositive of both
statements. 2.

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Let $x, y \in X$ and let c
be a scalar. Then. (B
A) $(x + y) = B (A (x$
 $+ y)) = B (A (x) + A ($

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$$y)) = B (A (x)) + B ($$

$$A (y)) = (B A) (x) +$$

$$(B A) (y) (B A) (c$$

$$x) = B (A (c x)) = B ($$

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which shows that $B A$ is

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linear. Let $A \in L(X)$
be invertible.

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Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be

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a strictly increasing
function such that $f(0) = 0$, which is
subadditive, i.e.: $f(a + b) \leq f(a) + f(b)$
and let d be a metric.
Then $f \circ d$ is a metric.

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That $f^{-1}(0)$ satisfies
condition (a) follows
from the injectivity of
 f , and from the fact
that $f(0) = 0$.

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Chapter 2 ...

If we apply this with m
 $= 1, \dots, n - 1$, we
successively obtain. F_1
 $= F_2 \cdot G_1 = F_3 \cdot G_2$
 $\cdot G_1 = \dots = F_n \cdot G_{n-1}$

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$\epsilon > 0$ in some neighborhood of 0. By (1), F_n is primitive, so we can let $G_n = F_n$.
(b) Let F be the mapping $(x, y) \mapsto (y, x)$ and suppose $F = G_2 \circ G_1$ in

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some neighborhood of the
origin, where.

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$U(P, f, \epsilon) = M \mid L(P, f, \epsilon) = m \mid$ in the
interval $[0, x]$ of P .

Because f is right-
continuous at 0 , both M

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$|f(x) - f(0)|$ and $|m(x) - m(0)|$ converge to 0 as $|x - 0| \rightarrow 0$, so $f'(0) = m'(0) = f'(0)$. (b) The statement is: $f \in R(a, b)$ if and only if $f(b) - f(a) = \int_a^b f'(x) dx$ and then $f(b) - f(a) = \int_a^b f'(x) dx$. The

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Description. Book
Information: Walter
Rudin, Principles of

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Mathematical Analysis,
3rd ed (3 print), McGraw-
Hill Book Company, New
York, 1985. This book
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chapters, and I'll
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each chapter into eleven parts, respectively.

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This is a complete
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book are as follows: It
covers all the 285
exercises with detailed
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As a matter of fact, my solutions show every detail, every step and every theorem that I applied.

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and completed solutions.

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solutions show every
detail, every step and

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every theorem that I
applied. 2.

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? P_n has at most n

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(distinct) roots, $B_p(z)$ is a finite set. By the corollary to Theorem 2.12, the set $\{B_p(z) \mid p \in \mathbb{N}\}$ is at most countable. Since every positive integer is an

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algebraic number
(consider the polynomial
 $z^n - 1$), the set of all
algebraic numbers A is
infinite.