

# Solution Exercise Rudin Functional Analysis

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## Solution Exercise Rudin Functional Analysis

Solutions manual developed by Roger Cooke of the University of Vermont, to accompany Principles of Mathematical Analysis, by Walter Rudin.

## Solutions Manual to Walter Rudin's Principles of ...

ABOUT THE AUTHOR In addition to Functional Analysis, Second Edition, Walter Rudin is the author of two other books: Principles of Mathematical Analysis and Real and Complex Analysis, whose widespread use is illustrated by the fact that they have been translated into a total of 13 languages. He wrote Principles of Mathematical Analysis while he was a C.L.E. Moore Instructor at the

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## **Functional Analysis Solution Walter Rudin**

Solution Exercise Rudin Functional Analysis (By analambanomenos) Let  $\mathbf{f}$  be a vector-valued function such that  $\mathbf{f}'$  is continuous on  $[a,b]$  and  $\forall \epsilon > 0$ . Define the vector-valued function  $\mathbf{g}$  on the rectangle  $[a,b] \times [a,b]$  as follows:

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Solution. (a) Let  $Y$  be a subspace of  $X$  which is contained in some ball  $B(a;r)$  of  $X$ . Note first that the ball  $B(a;r)$  must contain the vector zero of  $X$  (and so of  $Y$ ); otherwise, the question is impossible. For any number  $A > 0$  and any  $x \in Y$ , we have  $Ax \in Y$  since  $Y$  is a linear space. By hypothesis  $Y \subset B(a;r)$ , so we have  $Ax \in B(a;r)$ . This implies that  $\|kAx\| < r + \|kx\|$ . Finally

## Functional Analysis Problems with Solutions

6.2 Examples II 3. We have to assume that  $(Y; \|\cdot\|_Y)$  is a Banach space. Then if  $x_n \in X$  and  $x_n \rightarrow x$  (with  $x \in V$ ) we know that  $f(x_n)$  is Cauchy in  $V$ . So, since  $\|f(x_n) - f(x_m)\|_Y \leq \|x_n - x_m\|_X$  it follows that  $\{f(x_n)\}$  is a Cauchy sequence in  $Y$ . Since  $Y$  is complete, we know that  $\lim_{n \rightarrow \infty} f(x_n)$  exists and is an element of  $Y$ . If  $x$

## Functional Analysis I Solutions to Exercises

$U \in (P, f, \beta) = M \in L(P, f, \beta) = m \in I$  in the interval  $[0, x]$  of  $P$ . Because  $f$  is right-continuous at 0, both  $M$  and  $m$  converge to  $f(0)$  as  $x \rightarrow 0$ , so  $\int f d\beta = f(0)$ . (b) The statement is:  $f \in R(\beta)$  if and only if  $f(0^-) = f(0)$  and then  $\int f d\beta = f(0)$ . The proof is similar to part (a).

## Solution to Principles of Mathematical Analysis Chapter 6

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(By analambanomenos) Let  $f$  be a vector-valued function such that  $f'$  is continuous on  $[a,b]$  and  $\forall \epsilon > 0$ . Define the vector-valued function  $g$  on the rectangle  $[a,b] \times [a,b]$  as follows:

## Solution to Principles of Mathematical Analysis Chapter 5

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Solution: Let  $r \in \mathbb{Q}; r \neq 0$ . If  $r + x \in \mathbb{Q}$ , then  $x = (r + x) - r \in \mathbb{Q}$ . If  $rx \in \mathbb{Q}$ , then  $x = r^{-1}(rx) \in \mathbb{Q}$ . Take the contrapositive of both statements. 2. Prove that there is no rational number whose square is 12. Solution: Suppose  $r \in \mathbb{Q}$  and  $r^2 = 12$ . Let  $n \in \mathbb{Z}^+$  be least such that  $nr^2 \in \mathbb{Z}$ . Then  $(nr)^2 = 12n$ : (1)

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## **Solutions to Walter Rudin's Principles of Mathematical ...**

Real Analysis Math 131AH Rudin, Chapter #1 Dominique Abdi

1.1. If  $r$  is rational ( $r \neq 0$ ) and  $x$  is irrational, prove that  $r+x$  and  $rx$  are irrational. Solution. Assume the contrary, that  $r+x$  and  $rx$  are rational. Since the rational numbers form a field, axiom (A5) guarantees the existence of a rational number  $r_0$  so that, by axioms (A4) and (A3), we have

## **Real Analysis Math 131AH Rudin, Chapter #1 1.1. $r \neq 0$ and**

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