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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 $x \in X$) we know that $\{x_n\}$ is Cauchy in X . 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

Exercise 8. A functional $F(x)$ is called additive if $F(x+y) = F(x) + F(y)$. If F is additive, show that $F(x) = F(1)x$ for all rational x . Solution 8. Well, $F(0) = F(0+0) = F(0) + F(0)$. So $F(0) = 0$. By definition, for any $n > 0$ an integer, we have $nx = x + x + \dots + x$ (n times). Hence we must have $F(nx) = nF(x)$. More solutions manual at www.DumbLittleDoctor.com

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FUNCTIONAL ANALYSIS: SOLUTIONS TO EXERCISE SHEET 4 3 { For $1 < p < +\infty$, we claim that $\|k\|_p = 2^{1/p}$. We have already seen that $\|k\|_p \leq 2^{1/p}$, so we are left to prove the opposite inequality. FUNCTIONAL ANALYSIS: SOLUTIONS TO EXERCISE SHEET 4 Problem ...

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Solutions of Some Exercises. In this section the formulas are numbered (S1), (S2), etc, in order to avoid any confusion with formulas from the previous sections. 1.1 1. The equality $f(x) = x$ implies that $x \leq f$. Corollary 1.3 implies that $F(x)$ is nonempty.

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Functional Analysis Course 01GPVGI/02GPVKY, 2009/2010 Homework Exercises 3 Solutions so $\|k\|_k = \sup\{\|kx\|_k : x \in \ell^2, \|x\|_k = 1\} \geq 1$. (6) By combining (5) and (6) we can conclude that $\|k\|_k = 1$. 2. We compute $\|kR\|_k$. Recalling that $\|kR\|_k = \|k\|_k$, for all $x \in \ell^2$, we can easily see that $\|kR\|_k = \sup\{\|kR\|_k : x \in \ell^2, \|x\|_k = 1\} = \sup\{\|k\|_k : x \in \ell^2, \|x\|_k = 1\} = \sup\{1\} = 1$.

HILBERT SPACES AND LINEAR OPERATORS

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

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Supplements to the Exercises in Chapters 1-7 of Walter Rudin's Principles of Mathematical Analysis, Third Edition by George M. Bergman This packet contains both additional exercises relating to the material in Chapters 1-7 of Rudin, and information on Rudin's exercises for those chapters. For each exercise of either type, I give a title (an ...

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Exam 21 April with solutions. Results. Exam 17 March with solutions. Some results. Literature: Kreyszig: Introductory Functional Analysis with Applications, John Wiley & Sons, New York 1989. Also: Short text on the spectral theorem for compact self-adjoint operators. The following text may also be helpful: Mathematical statements and proofs.

Funktionalanalys (Functional analysis), spring 2006.

Exercises in Functional Analysis, summer 2016. This site provides material for the exercise and tutorial classes complementing the lecture course Functional Analysis held by Prof. Thomas Ø. Sørensen, PhD.

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