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Examples II 3. We have to assume that

$(Y; k_Y)$  is a Banach space.Then if  $x \in X$

and  $x_n \in X$  (with  $x_n \in V$ ) we know that  $\{x_n\}$

is Cauchy in  $V$ .So, since  $k_Y(x_n) = k_Y(x_n)$

it follows that  $\{x_n\}$  is a Cauchy

sequence in  $Y$ .Since  $Y$  is complete, we

know that  $\lim_{n \rightarrow \infty} x_n$  exists and is an

element of  $Y$ . If  $x \in X$ Functional Analysis I

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analambanomenos) Let  $\mathbf{f}$  be a

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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 *Solution Exercise Rudin Functional Analysis*

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