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Xvidinstmank.Q: T is bounded linear mapping if and only if $\|T\| \leq 1$? Let X and Y be Banach spaces,

$T: X \rightarrow Y$ be linear and bounded. I am reading the book Algebra of Linear Operators and I am having trouble in understanding a statement. I will explain the statement below. The book says that T is bounded if and only if $\|T\| \leq 1$, where $\|\cdot\|$ denotes the operator norm. I am able to prove the if part. But I am not able to prove the only if part. I will try to give a general outline of the problem. Suppose T is bounded. Then its range is bounded and the closed unit ball is compact. So there is a r_0 such that $\|Tx\| \leq 1$ for all $x \in B(0, r_0)$. Let $r = r_0 \|T\|$. Then

$\|Tx\| = \|T(x)\| \leq \|T\| \|x\| \leq r_0 \|T\| \|x\| \leq 1 \iff \|x\| \leq \frac{1}{\|T\|}$ So we have $Tx \in B(0, 1)$ for all $x \in$

$B(0, r_0)$. Now if I assume the above, it would be trivial. But I am unable to prove it by myself. Any help is appreciated. A:

As a hint: if T is not bounded, you can find an element $x \neq 0$ such that $\|Tx\| > 1$. Then $T^{-1}\{X\}$ is not bounded.

Can you use this to show that $\|T\| \geq 1$?

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