

# Math571 Functional Analysis Homework 6 Hw 8

## Chapter 1 : Math571 Functional Analysis Homework 6 Hw 8

Math 571 - functional analysis i - fall 2017 homework 7 due: friday, october 20, 2017 1. (# 2, section 2.7) let  $x$  and  $y$  be normed spaces. show that a linear operator  $t: x \rightarrow y$  is bounded if and only if  $t$  maps bounded sets in  $x$  into bounded sets in  $y$ . 2. (# 3, section 2.7) if  $t \neq 0$  is a bounded linear operator, show that for any  $\epsilon > 0$ , there exists a bounded set  $S$  in  $x$  such that  $t(S)$  is not bounded in  $y$ .

Math 571 - functional analysis i - fall 2017 homework 5 due: friday, october 6, 2017 1. (# 2, section 2.3) show that  $c_0$ , the space of all sequences of scalars converging to zero (see problem # 1, section 2.3), is a closed subspace of  $l_1$ , so that  $c_0$  is a closed subspace of  $l_1$ .

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