



3. (10 pts) Let  $X$  and  $Y$  be real or complex normed linear spaces,  $T : X \rightarrow Y$  be a linear mapping and  $x_0 \in X$  be given. Show that if  $T$  is continuous at  $x_0$  then  $T$  is uniformly continuous (on  $X$ ).
4. (10 pts) Let  $X$  be a real or complex normed linear space and let  $B \subset X$ . (Let's assume that  $B$

