2011g - FAI - 3 :

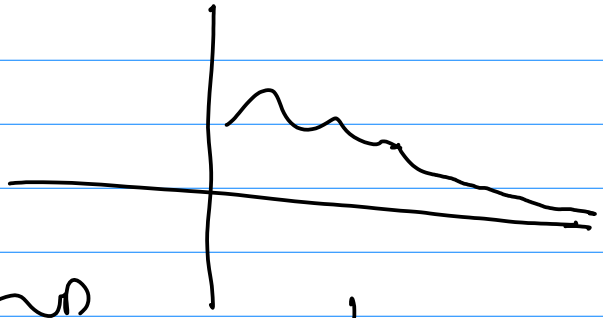
→ Questions? Let hear! about theory or exercises doesn't matter.

(2.3) (2)

conv. seq. → in c_0 ($\subset l^\infty$) → ($\mathbb{R}$- or $\mathbb{C}$-) in l^∞ → complete

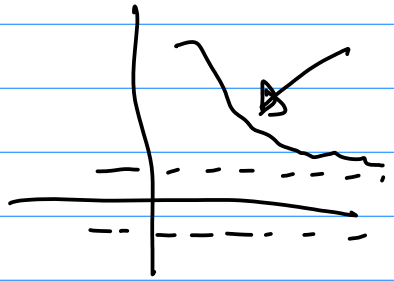
seq conv. in l^∞

limit $\in c_0$?!



If $\lim_{n\to\infty} x_n \neq 0$ then

$\exists N \ \forall n \geq N \quad \|x_n\| > \varepsilon$



$x_n \notin c_0$

(by contradiction)