

Assignment 9

MA 1124.

1. Complete the proof that
 A compact $\Rightarrow A$ closed & bounded.

2. Complete the proof that

every Cauchy seq converges
 $\Rightarrow$ l.u.b. axiom.

3. Show $f(x) = 1/x$ is continuous,
using ϵ, δ on $(0,1)$ and
 $|f(x)| \geq x^2$ also. Is there a
difference?