

Analysis 2 - HW

Note Title

4/9/2013

① Define $f: C[0,2] \rightarrow C[0,2]$, $f(x) = \int_0^x x(s) ds$, $t \in [0,2]$. Recall

that $C[0,2]$ is the set of all cont. functions on $[0,2]$ with the metric

$$\rho(x, y) = \max_{0 \leq t \leq 2} (|x(t) - y(t)|). \text{ For example } \rho(t^2) = \int_0^t s^2 ds = \frac{1}{3} t^3$$

a) \mathcal{I}_s of out_b ?

b) \mathcal{I}_s of one-to-one?

c) \mathcal{I}_s of continuous?

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