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Spring Term 2008
Name:

Analysis II — Quiz 3
07.03.08

Q3.1. Fourier series.

Find the Fourier series of the function $f : [0, 1] \longrightarrow \mathbb{R}$ where $f(x) = x(1 - x)$ and show that it converges uniformly to f on $[0, 1]$.