MATH 385-X1 - DIFFERENTIAL EQUATIONS: QUIZ 4

FALL, 2004

Name : _____

The values of a periodic function $f(t)$ in one full period are given; at each discontinuity the value of $f(t)$ is that given by the average of left- and right-limits. Sketch the graph of f and find its Fourier series. [5 pts each]

(1) $f(t) = \begin{cases} 0, & -\pi < t < 0, \\ 1, & 0 < t < \pi. \end{cases}$

(2) $f(t) = t, \ -2 < t < 2.$