

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 333 – Term 181 – Quiz 4

Name:

Student ID #:

Section #: 2

Question 1. Find the Fourier series of $f(x) = |x|$ on $-\pi < x < \pi$.

Question 2. Find the eigenvalues and the eigenfunctions of the Sturm-Liouville problem

$$y'' + 4y' + 4\lambda y = 0 \quad y(0) = 0 \quad y(1) = 0.$$