

Math 309 Quiz 3

November 19, 2015

Problem 1. Write down the definition of the fundamental period of a periodic function $f(x)$.

Problem 2. Consider the function defined by $f(x) = x$ for $-1 \leq x < 1$, and with $f(x + 2) = f(x)$ for all x .

- (a) Sketch a graph of the function that includes two full periods
- (b) Find the Fourier series for $f(x)$.