

Math 488: Quiz 6 Version A

This is a take-home quiz. Please work independently.

1. Indicate in writing that you have understood the requirement to work independently by writing “I have worked independently on this quiz” followed by your signature as the answer to this question.

2. For the function

$$f(x) = \begin{cases} 0 & \text{for } x < 0 \\ x & \text{for } x \geq 0 \end{cases}$$

sketch the Fourier series of $f(x)$ on the interval $[-L, L]$ and determine the Fourier coefficients.