

HOMEWORK #25 (M427K FALL 2004)

You are supposed to compute the Fourier series valid from $-\pi$ to π for the following functions. You will need to clip the functions off and make them periodic. At the end of each problem, PLEASE SKETCH this clipped function (I mean that you are taking only the piece between $-\pi$ to π and making it periodic for the rest).

1. MAKE FOURIER SERIES

$$f(x) = x^2 + 2x + 3$$

2. MAKE FOURIER SERIES

$$f(x) = x^3 + 5$$