

Problem Set 5 Calc 2 Due 11/9/2004

Each problem is worth 5 points. For full credit provide complete justification for your answers.

1. Construct successive Fourier polynomials up to degree 4 for the square wave function f , with period 2π , given by

$$f(x) = \begin{cases} 1 & -p \leq x \leq 0 \\ 0 & 0 < x \leq p. \end{cases}$$

2. Construct successive Fourier polynomials up to degree 7 for the square wave function f , from problem 1.

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