

Problem Set 7 Calculus 2 Due 4/8/2005

You are encouraged to work in groups of two to four on this assignment and make a single group submission. Each problem is worth 5 points. For full credit indicate clearly how you reached your answer. All work must be legible and submitted on clean paper without ragged edges.

1. Construct successive Fourier polynomials up to degree 7 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 $f(x) = x$ on the interval $-\pi \leq x \leq \pi$.

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