Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$

Problem Set 5 Calc 2 Due 3/29/2004

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

1. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

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

2. Construct successive Fourier polynomials up to degree 7 for the square wave function *f*, with period 2π, given by

$$f(x) = \begin{cases} 0 & -p \le x \le 0 \\ 1 & 0 \le x \le p/2 \\ 0 & p/2 \le x \le p \end{cases}.$$