

## MATH 220: Problem Set 8 Solutions

**Problem 1.** By proposition 0.11 in the inner product spaces handout, we know that  $\|f - \phi\|$  is minimal if we take the generalized Fourier coefficients. Meaning, if we call  $c_n(x) = \cos(nx)$  and  $s_n(x) = \sin(nx)$ :

$$\begin{cases} a_0 = \frac{\langle \phi, c_0 \rangle}{\|c_0\|^2} = \frac{1}{2\pi} \int_{-\pi}^{\pi} \phi(x) dx = \frac{\pi}{2}, \\ a_1 = \frac{\langle \phi, c_1 \rangle}{\|c_1\|^2} = \frac{1}{\pi} \int_{-\pi}^{\pi} \phi(x) \cos(x) dx = -\frac{4}{\pi}, \\ a_2 = \frac{\langle \phi, c_2 \rangle}{\|c_2\|^2} = \frac{1}{\pi} \int_{-\pi}^{\pi} \phi(x) \cos(2x) dx = 0, \\ b_1 = \frac{\langle \phi, s_1 \rangle}{\|s_1\|^2} = \frac{1}{\pi} \int_{-\pi}^{\pi} \phi(x) \sin(x) dx = 0, \\ b_2 = \frac{\langle \phi, s_2 \rangle}{\|s_2\|^2} = \frac{1}{\pi} \int_{-\pi}^{\pi} \phi(x) \sin(2x) dx = 0. \end{cases} \quad (1)$$

And hence  $f(x) = \frac{\pi}{2} - \frac{4}{\pi} \cos(x)$ .

**Remark.** We knew a priori that the  $b_n$  coefficients were zeros since  $\phi$  is even.

**Problem 2.**

(i) Assume  $A$  is symmetric positive. Let  $\lambda$  be an eigenvalue of  $A$  with associated (non-zero) eigenfunction  $v$ . Then we have that  $\lambda$  is real since

$$\lambda \langle v, v \rangle = \langle Av, v \rangle = \langle Av, v \rangle = \langle v, Av \rangle = \langle v, \lambda v \rangle = \bar{\lambda} \langle v, v \rangle, \quad (2)$$

which implies that  $\bar{\lambda} = \lambda$  since  $\langle v, v \rangle \neq 0$ .

Now we have

$$\lambda \langle v, v \rangle = \langle Av, v \rangle = \langle Av, v \rangle \geq 0, \quad (3)$$

which gives that  $\lambda \geq 0$  since  $\langle v, v \rangle > 0$ .

# Solutions To Problem Set 1 Stanford University

**Rosina Ehmann**



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