

**Math 425 / AMCS 525
Assignment 6**

**Dr. DeTurck
Due Thursday, March 17, 2016**

Topics for this week — Fourier series solutions – how to find them for various kinds of boundary conditions, perhaps a little about convergence

Sixth Homework Assignment - due Thursday, March 17

Reading: Read sections 4.3, 5.1, 5.2 and 5.3 of the text

Be prepared to discuss the following problems in class:

- Page 100 (page 97 in the first ed), problems 2, 6, 16
- Page 111 (page 107 in the first ed), problems 3, 4
- Page 117 (page 113 in the first ed), problems 2, 8
- Page 122 (page 118 in the first ed), problems 3, 5, 12

Write up solutions of the following to hand in:

- Page 100 (page 97 in the first ed), problems 7, 11, 14, 17
- Page 111 (page 107 in the first ed), problems 5, 6, 7, 10, 11
- Page 117 (page 113 in the first ed), problems 11, 14
- Page 122 (page 118 in the first ed), problems 2, 4, 13