

312. Homework 7

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Due: Tuesday, April 6, 2004

PROBLEM 1: Fourier series: general properties.

In Arfken and Weber, do problems 14.1.2, 14.1.7, and 14.2.3.

PROBLEM 2: Applications of Fourier series.

In Arfken and Weber, do problems 14.3.2, 14.3.3, 14.3.9, 14.3.11, 14.3.13, and 14.3.15.

PROBLEM 3: Properties of Fourier series.

In Arfken and Weber, do problems 14.4.5, 14.4.6, 14.4.7, and 14.4.10. Note: in the 4th Edition, do problems 14.4.4, 14.4.5, 14.4.6, and 14.4.9.

PROBLEM 4: Some more problems.

In Arfken and Weber, 14.5.2, 14.6.3, 14.6.4 and 14.6.5.