MATH 241 — HOMEWORK 14.

due on Friday, April 26.

   by Richard Haberman

Topics:
   • Chapter 10. Infinite Domain Problems: Fourier Transform Solutions of Partial Differential Equations
     – 10.2 Heat Equations on an Infinite Domain
     – 10.3 Fourier Transform Pair
     – 10.4 Fourier Transform and the Heat Equation
     – 10.6 Worked Examples Using Transforms
       * 10.6.1 One-Dimensional Wave Equation on an Infinite Interval
       * 10.6.3 Laplace’s Equation in a Half-Plane
       * 10.6.5 Heat Equation in a Plane

Fourteenth Homework Assignment:

Reading:
   • Read Sections 10.4 and 10.6.1, 10.6.3, 10.6.5 from the book.
   • Read your notes.

Exercises: Problems:
   • Page 461: problems: 10.4.3, 10.4.4, 10.4.7 a) b)
   • Page 491: problems: 10.6.3, 10.6.9, 10.6.18