Review for Exam 2: Monday March 2

1. Chapter 2

    - Be able to find the steady-state problem of an initial value-boundary value problem, see Exercise 2.2.1.

    - Be able to solve the steady-state problem. See Exercise 2.2.1.

    - Be able to find the steady-state problem and solve it (that is, find $v(x)$). See Exercise 2.5.4.

    - Be able to find the transient solution $w(x,t)$. See Exercise 2.5.4.

    - Be able to find the original solution $u(x,t) = v(x) + w(x,t)$. See Example 2.5.4.

    - Be able to find the solution of the heat problem with semi-infinite rod. See Example 2.10.3.

    - Be able to find the solution of the heat problem with infinite rod. See Example 2.11.2.

2. Homework: Review Homework 3, Homework 4 and Homework 5.