Math 433/833 **Assignment # 2** **Assigned: 2016.01.28**
Due: 2016.02.04

0. Read sections 2.1, 2.2, 2.3, 2.4, 2.5 in the book.

1. Do Problems:

   - Page 47, #2.1, 2.2, and 2.3
   - Page 52-53, #3.3, 3.12, 3.13
   - Page 62, #5.1(v), 5.2

2. Write a Matlab function to compute the limit in Section 5.2 using the sequence. Make the function input the number, `a`, and the number of iterations. Make it output the final iteration, and the absolute value of the error between the final iteration and the exact solution, `sqrt(a)`. Make the code give an error if the input `a` is negative. The whole code will be fairly short, maybe 10 lines or fewer, depending on how you code it. **If you get stuck, review *Part 10: Functions* in the Matlab Introduction file.**