Homework 2

Due Tuesday, September 14 at 10am. Please upload a legible copy to bCourses.

You may work together, but the solutions must be written up in your own words. Show all work and justify all answers.

1. Ross, 4.15.

2. Ross 4.16.

3. Ross 8.2 a), c) and e). Prove convergence directly from the definition; do not use any limit theorems.

4. Ross 8.5

5. Ross 8.7

6. Ross 8.10

7. Find the limit of $s_n = \sqrt{1 - 1/n}$. Prove your answer.