

Problems for Assignment 2
Due Friday, October 2, 2015
Total Points : 100

Assigned Problems. Do the problems listed below from the Karatzas and Shreve textbook. Each problem is worth 10 points. Problems denoted with a “*” have answers given in the textbook. You will not get credit for simply copying in these answers.

- 1.2.17* (page 9), 1.2.23* (page 10).
- 1.3.23, 1.3.27* (page 20), 1.3.29 (page 21).
- 1.4.15* (pages 29/30).
- 1.5.7 (pages 31/32), 1.5.12* (page 35), 1.5.19 (page 36), 1.5.24(i) (page 38).

Things to Read and Understand.

- Proposition 4.3 on page 22 regarding natural/predictable processes in discrete time.
- Problem 1.4.9.
- How, within the proof of Theorem 1.4.10, it is shown that $\{A_a^n\}_{n \in \mathbb{N}}$ is uniformly integrable.
- Problem 1.4.11.
- Problems 1.5.14, 1.5.17, 1.5.25.