Homework 10 Answers
BSTA 550

Non-textbook problems

- #1:

Textbook problems

There are answers at the back of the book!! Selected answers (or hints) not provided at the end the book:

- Chapter 37

  - # 2: 0.8869

  - # 4: 0.0023

  - # 20: 0.3936

  - # 24: 0.4562

  - # 30: (b) 0.0022   (c) $478.696 \approx 479$

- Chapter 43

  - NTB 3: (a) Poisson($\sum_{i=1}^{n} \lambda_i$)   (b) Poisson(3λ)   (c) $M_{3X}(t) = e\lambda(e^{3t} - 1)$ This is not an mgf of a common probability distribution.   (d) In (b) we are adding independent r.v.'s X_i, while in (c) we are adding dependent r.v.'s ($3X = X + X + X$; X is dependent with itself).