

Appendix 2

A few exercises from [CB]

Example 2.2.6 (minimizing distance)

Example 2.3.13 (Poisson approximation)

Section 2.4 (about exchange of differentiation and integration)

Exercise 2.17 about the median m

$$P(X \leq m) \geq \frac{1}{2} \quad \text{and} \quad P(X \geq m) \geq \frac{1}{2}$$

Exercise 2.18 (also about the median)

Exercise 2.28 (about skewness and kurtosis)

Thm 3.6.1 (related to Markov inequality)

Thm 2.1.8 (function of a r.v. X , make a summary of the result)

About common distributions :

make a 1 page (maximum) summary about one of them, with an example of application.

Use [CB], [FEHP], or internet (Wikipedia)