Probability and Statistics for Final Year Engineering Students

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Starred Exercises 2: Binomial, Hypergeometric and Normal Distributions

Starred Exercises:

- Closeness of Binomial and Hypergeometric distributions: Look at the statement of Theorem 5.3.4 on page 284 of [DeGr12]. Try to prove this result (first without looking at the proof).
- 2) Show (calculate) that the parameters μ and σ^2 are indeed the mean and variance of the normal distribution.
- 3) Google the Wikipedia entry of "de Moivre–Laplace theorem". Try to follow the proof. This is maybe the first appearance of a (special-form) of the central limit theorem.