Homework 3

Due: 11:59pm, Thursday, Feb. 24th

Instruction: Please scan or typeset your solutions and upload them as a single pdf file to Canvas. Do not just take a picture of your solutions.

- 0. Readings: Sections 4.3, 4.4
- 1. Section 4.5: 1(c) (d) (e)
- 2. Section 4.5: 2
- 3. Section 4.5: 3
- 4. Section 4.5: 11
- 5. Section 4.5: 13
- 6. Let a random variable $X \sim \text{Bernoulli}(p)$, compute its population mean μ , population variance σ^2 , and population standard deviation σ .
- 7. Let a random variable $Y \sim \text{Binomial}(n, p)$, compute its population mean μ , population variance σ^2 , and population standard deviation σ .