This problem set covers material from Week 7, dates 4/02- 4/05, with content that builds on material from Week 6. Unless otherwise noted, all problems are taken from the textbook. Problems can be found at the end of the corresponding subsection.

Instructions: Write or type complete solutions to the following problems and submit answers to the corresponding Canvas assignment. Your solutions should be neatly-written, show all work and computations, include figures or graphs where appropriate, and include some written explanation of your method or process (enough that I can understand your reasoning without having to guess or make assumptions). A general rubric for homework problems appears on the final page of this assignment.

## Tuesday 4/02 (and some material from week 6)

- 1. 8.3: Problem 6 (write the exact probability in terms of the appropriate CDF; then use R to obtain a decimal approximation. Please provide the code (hand-written is fine) that you used!)
- 2. 8.4: Problem 2 (use R to obtain a decimal approximation. Please provide the code (hand-written is fine) that you used!)

## General rubric

Points	Criteria
5	The solution is correct and well-written. The author leaves no
	doubt as to why the solution is valid.
4.5	The solution is well-written, and is correct except for some minor
	arithmetic or calculation mistake.
4	The solution is technically correct, but author has omitted some key
	justification for why the solution is valid. Alternatively, the solution
	is well-written, but is missing a small, but essential component.
3	The solution is well-written, but either overlooks a significant com-
	ponent of the problem or makes a significant mistake. Alternatively,
	in a multi-part problem, a majority of the solutions are correct and
	well-written, but one part is missing or is significantly incorrect.
2	The solution is either correct but not adequately written, or it is
	adequately written but overlooks a significant component of the
1	problem or makes a significant mistake.
1	The solution is rudimentary, but contains some relevant ideas. Alternatively, the colution briefly indicates the correct arguest but
	ternatively, the solution briefly indicates the correct answer, but
0	provides no further justification.  Either the solution is missing entirely, or the author makes no non-
	trivial progress toward a solution (i.e. just writes the statement of
	the problem and/or restates given information).
	the problem and of restates given information).
Notes:	For problems with multiple parts, the score represents a holistic
110005.	review of the entire problem. Additionally, half-points may be used
	if the solution falls between two point values above.
Notes:	For problems with code, well-written means only having lines of
	code that are necessary to solving the problem, as well as presenting
	the solution for the reader to easily see. It might also be worth
	adding comments to your code.
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