

Math 454 - Financial Math - Spring 2025

Spring 2025 Exam 2–A, Mar 24, 2025

NAME: _____

This exam is worth a total of 150 points.

Instructions

- Turn off all electronic devices including, but not limited to, cell phones, tablet, laptops, ...
- Calculators are not allowed.
- **Enter your name NOW!**
- Be sure to press hard enough for sufficient contrast! Whatever I cannot read with my not so good eyesight I must ignore when grading. This does not apply to your scratch work.
- Show your work unless you are only asked to fill in place holders, e.g., check off selections or enter numbers. Exceptions to this rule will be indicated where they occur.
- Circle or square the result if it is not a fill in the blanks answer.
- Use the empty back pages for scratch and **if you run out of space** for the solutions. Unless you explicitly write a remark such as "**continued on the back**", I will assume that a back page only contains scratch work and not grade what you wrote there!
- Read all problems very carefully. If you have any questions raise your hand. Wave your hand to get my attention if I look in your direction and ignore you.
- If you write, e.g., $P(A)$ and that becomes part of your solution without indicating the meaning of A and your result is wrong, how do you expect me to give you partial credit?
- For your insurance, use some shorthand like, e.g., $Y_t := \#(\text{stock shares})$.
- If script letters of σ -algebras are problematic, write $\underline{B}, \underline{F}, \underline{G}, \underline{H}, \dots$ for $\mathfrak{B}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \dots$
- This test has 8 problems on pages 2–7 and is worth 150 points. It is your responsibility to make sure that you have all of the pages!
- Do not return the formula sheet with your exam.
- Good Luck!

SHOW YOUR WORK.

DO NOT TURN THIS PAGE UNTIL TOLD TO DO SO.

Problem	1	2	3	4	5	6	7	8	Total
Points Earned									
Out of	36	20	12	20	12	20	10	20	150