

Homework 10

Math 262

Write your solutions to the following problems and turn them in to the homework mailbox (RMS level 3, near the fireplace) by 5:00pm on **Friday, April 7**.

Book Problems

Most of the following problems ask you to compute probabilities involving the normal and exponential distributions. While you should know the normal and exponential pdfs, you will likely want to use technology to evaluate the probabilities. In particular, **R** functions such as `pnorm`(x , μ , σ), `qnorm`(x , μ , σ), and `pexp`(x , λ) might be very helpful. In your solutions, please write the function call that you used to get your answer!

- Section 3.3 #39abcj, 40abe, 47, 50, 55, 68a, 70 (pages 220–226)

Note: In #40(a), the function Φ is the cdf of the standard normal distribution.

- Section 3.4 #71, 74, 79 (pages 233–235)