

Homework 5

MTH 3210 Probability and Statistics
Due Tue., Apr. 2

Unless stated otherwise, you must **show your work** to receive full credit.

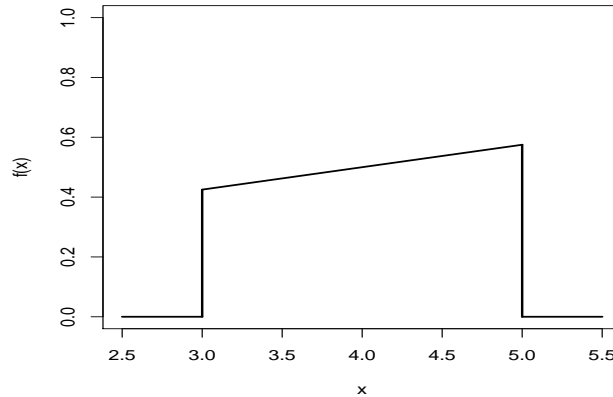
Read These Sections of the Book	Then Do These Problems
3.6 4.1	82, 83* (part a only), 87 1** (skip part a, refer to the graph below), 2, 3*** (skip part a, refer to the graph below)

* For Problem 83, use the **Poisson Approximation to the Binomial**.

** For Problem 1, a graph of the pdf

$$f(x) = \begin{cases} 0.075x + 0.2 & \text{for } 3 \leq x \leq 5 \\ 0 & \text{otherwise} \end{cases}$$

is below.



*** For Problem 3, a graph of the pdf

$$f(x) = \begin{cases} 0.09375(4 - x^2) & \text{for } -2 \leq x \leq 2 \\ 0 & \text{otherwise} \end{cases}$$

is below.

