

Homework 1

ECON 4818, Spring 2025

Professor Martins

1. From your textbook Math Refresher A - Basic Mathematical Tools answer problems 7, 11 and 13.
2. Let X be a random variable with density function given by

$$f(x) = \begin{cases} 2(1-x) & \text{for } 0 < x < 1 \\ 0 & \text{elsewhere} \end{cases}.$$

Obtain $E(X)$ and $V(X)$.

3. From your textbook, answer the following problems in Math Refresher B - Fundamentals of Probability: 1, 2, 4, 6, 11 (i), (ii), (iii).