

Homework 4  
MTH 1210, Fall 2019

Due Mon., Sept. 23

For each problem that involves computations, you must **show your work** to receive full credit.

<b>Read This Section in the Book:</b>	<b>Then Do These Problems:</b>
4.1	4.22
4.2	4.42, 4.43, 4.53, 4.57, 4.67
4.3	4.80, 4.83, 4.87*, 4.90, 4.93, 4.98, 4.99

\* For **Part a** of **Problem 4.87**, in the “ $f/N$  rule,”  $f$  is the number of senators under age 70 and  $N$  is 100 (the total number of senators).

For **Part b**, the event  $S$  can be expressed as:

$$S = (A \text{ or } B \text{ or } C)$$

For **Part d**, the Special Addition Rule applies to *three* mutually exclusive events:

$$P(A \text{ or } B \text{ or } C) = P(A) + P(B) + P(C)$$