

SYS 660

Assignment 3

Due: March 5, 2019

Name: \_\_\_\_\_

All assignments should be either in pdf or word documents and through Canvas. One file per assignment only. All files should have your name as well as page numbers (2 points each).

1) Clemen, Chapter 7, Problem 7.6 (2<sup>nd</sup> or 3<sup>rd</sup> edition)

2) Clemen, Chapter 7, Problem 7.8 (2<sup>nd</sup> or 3<sup>rd</sup> edition)

3) Find  $E[f(x)]$  where:

$$f(x) = 2x^3 - 4x^2 + 2$$

And

$$P(X = x) = \begin{cases} 0.1, x = 1 \\ 0.2, x = 2 \\ 0.5, x = 3 \\ 0.1, x = 4 \\ 0.1, x = 5 \end{cases}$$