CSC/MAT-220: Discrete Structures
Homework 6

Due: 12/1/2017

Book Problems

Please do each of the following problems from your book:

27.1, 28.4, 30.9, 31.24 (do this in SML, attach your code and provide your answer), 32.32 (provide explanation similar to that of the Monty Hall Problem), 33.3, 34.17 (note that X and a can be positive real-valued), and 34.24 (note that X can be real-valued).

Other Problems

Problem 1. Go back and review EFY 9. Provide formulae for the probability that Alice and Bob win on the nth flip. Then give formulae for the expected value of the number of flips to win for Alice and Bob. Use Mathematica (Wolfram Alpha) or some other software to compute this infinite sum.