Answers to the Problem Set 1
Econometrics (Ph.D.)

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Problem 1

In the accompanying file Problem1.R, I wrote function for the Monty Hall problem and demonstration code in line with the questions of the problem. The main conclusion from the result is that the "Switch strategy" has 66.67You can see the result from the resulting log of running the whole file.

Problem 2

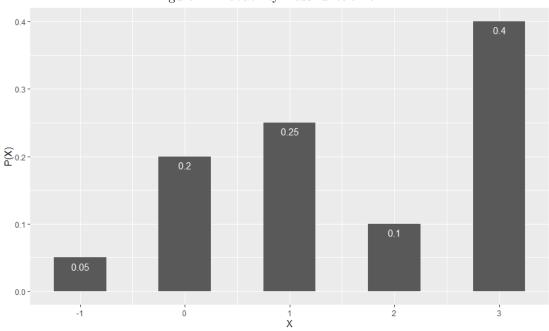In the accompanying file Problem2.R, I wrote a code for the task. Mean of the variable is 1.6 and variance is 1.74.

Figure 1: Probability mass function of X