MATH450, Spring 2019, Homework 3, Due Friday, March 22, 2:30pm

- 1. Section 6.2: 13, 17, 19
- 2. Section 7.1: 13, 15
- 3. Suppose that for a parameter  $0 \leq \theta \leq 1,$  X is the outcome of the roll of a four-sided tetrahedral die

Suppose the die is rolled 10 times with outcomes

- (a) Use the method of moments to obtain an estimator of  $\theta$ .
- (b) Use the method of maximum likelihood to obtain an estimator of  $\theta$ .