Method of Moments

- 1. Let $X_1, \ldots, X_n \stackrel{\text{iid}}{\sim} \text{Unif}[-\theta, \theta]$ where $\theta > 0$.
 - (a) Obtain a method of moments estimator of θ .
 - (b) Compare your answer to the MLE from last week's practice problems.
- 2. Suppose $X_1, \ldots, X_n | \theta \stackrel{\text{iid}}{\sim} \text{Unif}[0, \theta]$. Is the sequence of method of moments estimators for θ a consistent sequence? Why or why not?