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takes values in the interval  $[0, \theta]$

and  $E(X) = 2$  and  $\text{Var}(X) = 24/5$ .

To estimate the unknown parameter  $\theta$ , a random sample of size  $n$  is obtained from the distribution of  $X$ . The sample mean is denoted by  $\bar{X}$  and  $U = k\bar{X}$  is an unbiased estimator for  $\theta$ . (a)

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