

1. (10 points) You are given the following:

- i. The random variable X has the density function $f(x) = \{2(\theta - x)\}/\theta^2, 0 < x < \theta$
- ii. A random sample of two observations of X yields values of 0.50 and 1.00.

Determine the maximum likelihood estimate for θ .

2. I would like to receive 10 points for this question.

True or False