MATH10282: INTRODUCTION TO STATISTICS SEMESTER 2 QUIZ PROBLEM 7 (Deadline: Thursday 15 April 2021, 10:00am)

Suppose X_i distributed as Exp $(i\lambda)$, i = 1, ..., n are independent random variables. The maximum likelihood estimator of λ is

- a) $\frac{\sum_{i=1}^{n} ix_i}{n}.$ b) $\frac{\sum_{i=1}^{n} x_i}{n}.$ c) $\frac{n}{\sum_{i=1}^{n} ix_i}.$
- d) $\frac{n}{\sum_{i=1}^{n} x_i}$.

This problem is worth 1 mark. Marking scheme: 1 mark if the answer is correct, 0 mark if the answer is incorrect.

Please use Blackboard to enter your answer.