AQA – Exponential distributions – A2 Further Mathematics Statistics

1. June/2021/Paper_7367/3S/No.7

    The random variable X has an exponential distribution with parameter λ

    (a)   Prove that $E(X) = \dfrac{1}{\lambda}$

    [4 marks]

    (b)   Prove that $\text{Var}(X) = \dfrac{1}{\lambda^2}$

    [7 marks]