## **Exponential distributions – A2 Further Mathematics Statistics**

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The random variable X has an exponential distribution with probability density function  $f(x) = \lambda e^{-\lambda x}$  where x > 0

ction, for $x \ge 0$ , is given by $F(x) = 1$	
your answer to three decimal places.	that $\lambda = 2$ , find $P(X > 1)$ , g
[2	