

The length of time, in minutes, that a customer queues in a Post Office is a random variable, T , with probability density function

$$f(t) = \begin{cases} c(81 - t^2) & 0 \leq t \leq 9 \\ 0 & \text{otherwise} \end{cases}$$

where c is a constant.

(a) Show that the value of c is $\frac{1}{486}$ (4)

(b) Show that the cumulative distribution function $F(t)$ is given by

$$F(t) = \begin{cases} 0 & t < 0 \\ \frac{t}{6} - \frac{t^3}{1458} & 0 \leq t \leq 9 \\ 1 & t > 9 \end{cases}$$

(2)

(c) Find the probability that a customer will queue for longer than 3 minutes. (2)

A customer has been queueing for 3 minutes.

(d) Find the probability that this customer will be queueing for at least 7 minutes. (3)

Three customers are selected at random.

(e) Find the probability that exactly 2 of them had to queue for longer than 3 minutes. (3)

June 2014 S2 Mark Scheme

JR Anderson



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