

Question 1

1 point possible (graded)

Let us consider a partition (B_n , $n=1,2,3,\dots$) of the sample space and an event A . The total probability formula states that:

Select the correct answer(s).

☐

$$P(A) = \sum_n P(A | B_n)P(B_n)$$

☐

$$P(A) = \sum_n P(A \cup B_n)$$

☐

$$P(A) = \sum_n P(A \cap B_n)$$

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Question 2

1 point possible (graded)

If there are i customers in the system at time t , and if we omit all events with probabilities $o(\Delta t)$, this means that at time $(t-\Delta t)$ there were :

☐

$i-1$ customers, and an arrival has occurred

☐ i customers, and both an arrival and a service have occurred

☐ $i+1$ customers, and a service has occurred

☐ i customers, and no arrival, no service have occurred

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You have used 0 of 2 attempts
