## Question 1

1 point possible (graded)	
Let us consider an exponential random variable with parameter $\lambda$ = 10. Whis its average value?	nat
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Question 2	
1 point possible (graded)	
The squared coefficient of variation of an exponential distribution is equal to	O
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## Question 3

1 point possible (graded)

Let U be a random variable. Let u and u0 be two positive real numbers. Which of the following statements are true?

$$P(U>u+u_0\mid U>u_0)=rac{P(U>u+u_0,U>u_0)}{P(U>u_0)}$$

$$P(U>u+u_0\mid U>u_0)=rac{P(U>u+u_0)}{P(U>u_0)}$$

$$P(U>u+u_0\mid U>u_0)=rac{P(U>u+u_0)+P(U>u_0)}{P(U>u_0)}$$

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## Question 4

1 point possible (graded)

Let U be an exponential random variable with parameter  $\lambda$  and let S be an exponential random variable with parameter  $\mu$ . We assume moreover that U and S are independent. Which of the following statements are correct?

$$P(\min(U,S)>z)=P(U>z)P(S>z)$$

$$P(\min(U,S) < z) = P(U < z)P(S < z)$$

$$P(\min(U,S)>z)=\exp(-(\lambda+\mu)z)$$

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