Practice Test 2

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The Roles of Statistics in Engineering
Probability
Discrete Random Variables and Probability Distribution
*** Review for Test 1 ***
Continuous Random Variables and Probability Distribution
Descriptive Statistics

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Started on	Saturday, 24 February 2024, 3:57 PM
State	Finished
Completed on	Saturday, 24 February 2024, 4:27 PM
Time taken	30 mins 1 sec
Marks	16.00/16.00
Grade	**10.00** out of 10.00 (**100**%)

Quiz navigation

1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16

Finish review

Question **1**

Complete

Mark 1.00 out of 1.00

Flag question

The number of hours you spend looking at YouTube on a typical Saturday night is distributed according to the density function $f(x) = 2xe^{-x^2}$ with $0 \leq x$. Find the probability that, on a typical Saturday night, you spend between 0.75 and 1.25 hours watching YouTube.

Select one:

a. 0.6315
b. 0.4523
c. 0.3602
d. 0.5102

The correct answer is: 0.3602

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Type here to search

ENG 11:48 PM 1/18/2024

Practice Test 2

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Started on	Saturday, 24 February 2024, 4:30 PM
State	Finished
Completed on	Saturday, 24 February 2024, 5:00 PM
Time taken	30 mins 2 secs
Marks	16.00/16.00
Grade	**10.00** out of 10.00 (**100**%)

Quiz navigation

1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16

Finish review

Question **1**

Complete

Mark 1.00 out of 1.00

Flag question

The age (in years) of randomly chosen T-shirts in your wardrobe from last summer is distributed according to the density function $f(x) = \frac{10}{9x^2}$ with $1 \leq x \leq 10$. Find the probability that a randomly chosen T-shirt is between 2 and 8 years old

Select one:

a. 0.417
b. 0.3311
c. 0.1331
d. 0.3111

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Practice Test 2

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Started on	Saturday, 24 February 2024, 6:02 PM
State	Finished
Completed on	Saturday, 24 February 2024, 6:32 PM
Time taken	30 mins 7 secs
Marks	16.00/16.00
Grade	**10.00** out of 10.00 (**100**%)

Quiz navigation

1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16

Finish review

Question 1

Complete

Mark 1.00 out of 1.00

Flag question

Suppose that X is a continuous random variable whose probability density function is given by $f(x)=C(4x-2x^2), 0<x<2$ and $f(x)=0$ for other values of x. What is the value of C?

Select one:

- a. 0.125
- b. 0.375
- c. 1.520
- d. 2.500

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State	Finished
Completed on	Saturday, 24 February 2024, 7:25 PM
Time taken	30 mins 43 secs
Marks	16.00/16.00
Grade	**10.00** out of 10.00 (**100**%)

Quiz navigation

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10 11 12 13 14 15 16

Finish review

Question 1

Complete

Mark 1.00 out of 1.00

Flag question

Let X be a continuous random variable with probability density function defined by

$$f(x)=\begin{cases}\frac{3}{8}x^2, 0\le x\le 2\\ 0, otherwise\end{cases}$$

Find the mean of X

Select one:

- a. 1/3
- b. 3/2
- c. 1/2

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Started on	Saturday, 24 February 2024, 9:04 PM
State	Finished
Completed on	Saturday, 24 February 2024, 9:35 PM
Time taken	30 mins 16 secs
Marks	16.00/16.00
Grade	**10.00** out of 10.00 (**100**%)

Quiz navigation

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Finish review

Question 1

Complete

Mark 1.00 out of 1.00

Flag question

Let X be a continuous random variable with probability density function defined by

$$f(x)=\begin{cases} kx, 0\leq x<1 \\ k, 1\leq x\leq 2 \\ 0, \text{otherwise} \end{cases}$$

What value must k take for this to be a valid density?

Select one:

- a. 2/3
- b. 3/2
- c. 2

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