Started on	Monday, 21 October 2024, 4:58 PM
State	Finished
Completed on	Monday, 21 October 2024, 4:58 PM
Time taken	14 secs
Marks	0.00/5.00
Grade	0.00 out of 10.00 (0 %)

Question 1

Not answered

Marked out of 1.00

A stick of length 10 meters is randomly broken into two parts. Find the cumulative distribution function (cdf) and the <u>probability</u> density function (pdf) of the length of the shorter part.

Cumulative distribution function: $F(x) = \left\{ </{
m td}> < {
m td}>
ight.$, if 0 < x < 5, , if x > 5.

Probability density function.: $f(x) = \left\{ ext{\} \right\}$, if 0 < x < 5, otherwise.

Question 2 Not answered

Marked out of 1.00

Find the CDF of the distance of two randomly chosen points of the [0,3] interval.

${\tt Question}~3$

Not answered

Marked out of 3.00

The PDF of a random variable ξ is

$$f(x) = \left\{ egin{array}{ll} 0, & ext{if } x < 3 \ rac{A}{\left(4 + x
ight)^2}, & ext{if } x \geq 3 \end{array}
ight.$$

a.)

What is the value of A?

b.)

What is the value of $P(3<\xi<14)$?

c.)

CDF:
$$F(x) = \left\{ ext{ , if x < 3,} \right.$$

→ Homework 6

Jump to...

Homework 8 ►



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