

<u>Course</u> > <u>Unit 5:</u> ... > <u>Lec. 8:</u> ... > 14. Exe...

14. Exercise: Normal random variables

Exercises due Mar 13, 2020 05:29 IST Completed

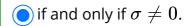
Exercise: Normal random variables

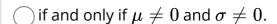
1/1 point (graded)

Choose the correct answer below.

According to our conventions, a normal random variable $X \sim N\left(\mu,\sigma^2\right)$ is a continuous random variable

)	a	lwa	IVS.
)	a	IVVC	ıys.







Solution:

When $\sigma \neq 0$, the distribution of X is described by a PDF, and so X is a continuous random variable. But when $\sigma = 0$, then X has all of its probability assigned to a single point, and therefore it is not a continuous random variable. (For continuous random variables, any single point must have zero probability.)

Submit

You have used 1 of 2 attempts

1 Answers are displayed within the problem



Discussion

Hide Discussion

Topic: Unit 5: Continuous random variables:Lec. 8: Probability density functions / 14. Exercise: Normal random variables

Show all posts

There are no posts in this topic yet.

★

© All Rights Reserved

