



Course > Unit 5: ... > Proble... > 2. CDF

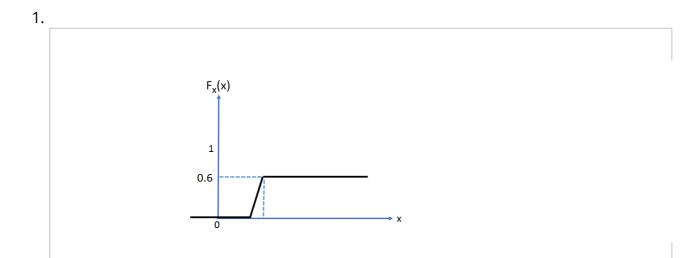
2. CDF

Problem Set due Mar 13, 2020 05:29 IST Completed

Problem 2. CDF

2/4 points (graded)

For each one of the following figures, identify whether it is a valid CDF. The value of the CDF at points of discontinuity is indicated with a small solid circle.



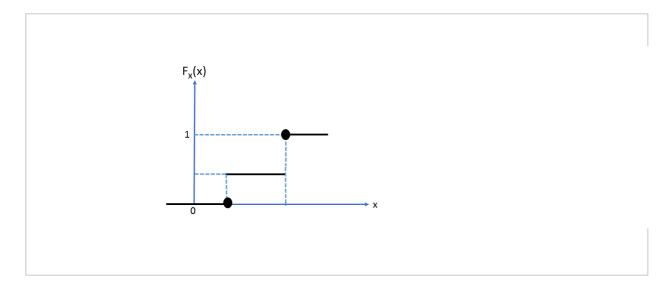
Note: Assume that the above function never goes above 0.6.

It is not a valid CDF

Answer: It is not a valid CDF

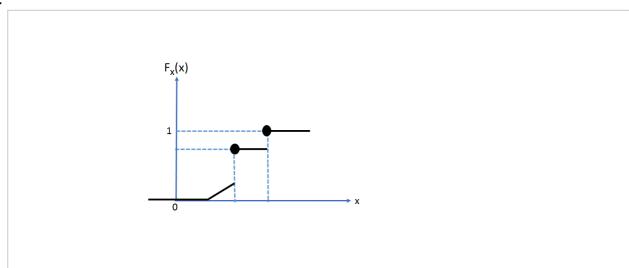
2.





X Answer: It is not a valid CDF

3.

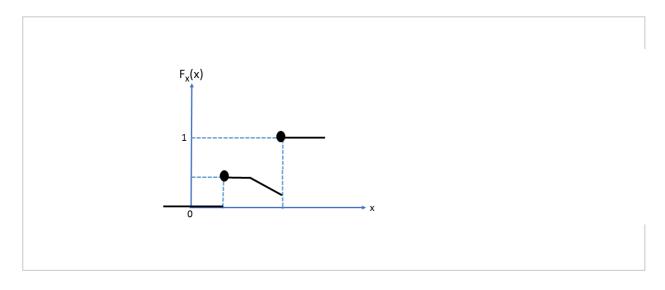


It is not a valid CDF 🕶

X Answer: It is a valid CDF

4.





It is not a valid CDF ➤

✓ Answer: It is not a valid CDF

Solution:

- 1. No, because $\lim_{x o \infty} F_X(x)
 eq 1$.
- 2. No, because it is not right-continuous.
- 3. Yes, it is a valid CDF (limiting values are as required, and it is monotonic, and right-continuous).
- 4. No, because it is not monotonic.

Submit

You have used 1 of 1 attempt

1 Answers are displayed within the problem

Discussion

Hide Discussion

Topic: Unit 5: Continuous random variables:Problem Set 5 / 2. CDF



	As there isn't any other marks at y axis except 1, I decide that this is just value till which function rises	•
2	[Staff] answer 1 I think the picture is misleading, at a first sight I thought the 1 referred to the top line	1
⋖	[Staff] Answer to 1 I think answer to question 1 is not correct. Please check.	11
?	<u>I am tired</u> <u>Did not notice that there is a "1" mark. It is 1:15 AM here, been working whole day. I can barely keep</u>	11
Q	[Staff] Grader for figure 1 is in correct? I think the grader for fig. 1 is incorrect? It must be have dot for not differential points in the fig?	17
Q	Solid circles Beware of solid circles at the point of discontinuity:)	1
Q	Helpfull link Here is a [link](https://study.com/academy/answer/explain-what-makes-a-cdf-valid.html) to a post tha	1
?	(Staff) Why keep the amiguous questions? For 1a. The interpretation changes the answer to the question. A reason was given by the Community	6
?	[Staff] Submit from Mobile by mistake unanswered questions I am terribly sorry I used the mobile for navigation and it fell down and by coincedence got the submi	2
Q	Is question 1 a joke? This question is clearly not up to the standard and actually questions our ability to understand figure	1
?	Question 2 I need clarification on answer for Q2. I got it wrong.	2
?	Answer Explanations [for Staff] Could you provide explanations for answers	4

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