

MITx: 14.310x Data Analysis for Social Scientists

Heli



Bookmarks

- Module 1: The Basics of R and Introduction to the Course
- Entrance Survey
- Module 2:
 Fundamentals of
 Probability, Random
 Variables, Distributions,
 and Joint Distributions

Fundamentals of Probability

Finger Exercises due Oct 10, 2016 at 05:00 IST

Random Variables, Distributions, and Joint Distributions

Finger Exercises due Oct 10, 2016 at 05:00 IST

Module 2: Homework

Homework due Oct 03, 2016 at 05:00 IST

Module 2: Fundamentals of Probability, Random Variables, Distributions, and Joint Distributions > Random Variables, Distributions, and Joint Distributions > Joint Distributions - Quiz



Question 1

(1/1 point)

Joint probability density functions for continuous variables exhibit which of the following properties? (Check all that apply.)

- 🗹 a. The joint probability at any particular point is zero 💙
- b. The joint probability at any particular point is positive
- c. The joint probability density function integrates to 1
- d. The joint probability density function integrates to the number of variables included in density function. For example, for two variables x and y, the joint PDF integrates to 1



EXPLANATION

Exit Survey

Similar to the case of the PDF for a single variable, the joint probability at any particular point, $f_{xy}(x,y)$ is equal to zero, and the joint PDF must integrate to 1 over the x-y plane.

You have used 1 of 2 submissions

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