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

Bookmark

Question 1

(1/1 point)

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

- [x] a. The joint probability at any particular point is zero ✔
- [ ] b. The joint probability at any particular point is positive
- [x] 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