

<u>Course</u> > <u>Week 5</u>... > <u>5.10 Co</u>... > Quiz 5

Quiz 5

1

1/1 point (graded)

Which 2 of the following are true about the expectation of a random variable?

- ✓ Not random ✓
- Random value
- Property of the distribution
- Independent of the distribution



Answer

Correct:

Video: Expectation Video: Expectation Video: Expectation Video: Expectation

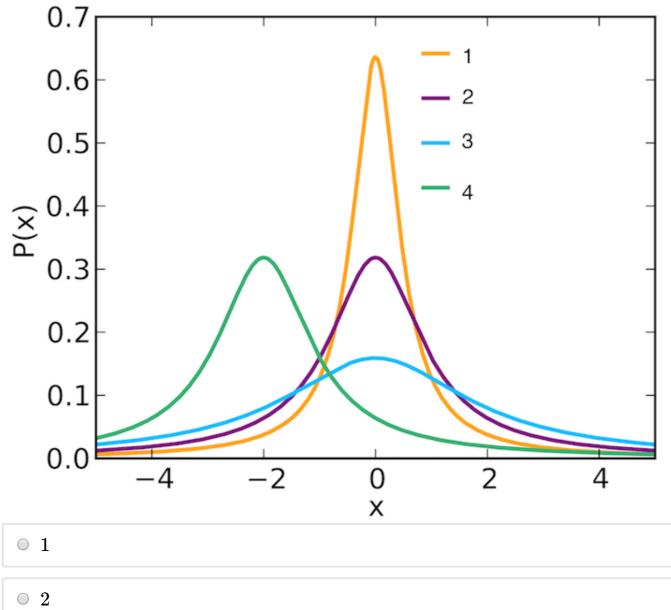
Submit

1 Answers are displayed within the problem

2

1/1 point (graded)

Given 4 probability density functions, which one shows the greatest variance?



3

0 4

Answer

Correct: Video: Variance

Submit

| | Answers are displayed within the problem |
|------------------|--|
| 3 | |
| | point (graded) with the following statements are true about all Independent random variables, X |
| ✓ | P(X Y) = P(X), $P(Y X) = P(Y)$ |
| • | Rows of the probability distribution table are proportional to each other. 🗸 |
| | The probability distribution table is symmetric along either diagonal. |
| | P(X Y) = P(Y X) |
| | rect: o: Two Variables |
| Vide | |
| Vide | o: Two Variables |
| Vide S | o: Two Variables |
| S 4 1/1 F The | o: Two Variables |
| S 4 1/1 F The | o: Two Variables ubmit Answers are displayed within the problem point (graded) Cauchy-Schwartz Inequality gives boundaries of the expected value of a product of |

| Correct: Video: Covariance | |
|---|--|
| Submit | |
| Answers are displayed within the problem | |
| 5 | |
| 1/1 point (graded) The correlation coefficient between X and $-X$ is 0. | |
| O True | |
| ● False ✔ | |
| Answer Correct: Video: Covariance Submit | |
| Answers are displayed within the problem | |
| | |

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