

**Exercises II  
with Answers  
VU Econometrics: Econometrics I  
Fall 2019**

**Review of the concepts and mathematical derivations**

1. What is meant by the "sampling distribution" of the OLS estimators?

*Answer:* Consider the regression model  $Y_i = \beta_0 + \beta_1 X_i + u_i$ . OLS estimators of  $\beta_0$  and  $\beta_1$  are a function of the the random variables  $Y_i$  and  $X_i$ . Hence, the OLS estimators are also random variables and their values change depending on the sample. Sampling distributions of  $\hat{\beta}_0$  and  $\hat{\beta}_1$  are the probability distributions that describes the values that the true parameter values  $\beta_0$  and  $\beta_1$  could take over different possible random samples.

2. Consider the linear regression model

$$Y_i = \beta_0 + \beta_1 X_i + u_i \quad i = 1, \dots, n.$$

Prove that the OLS estimator of  $\beta_1$ :  $\hat{\beta}_1$  is an unbiased estimator.

*Answer:* We need to prove that  $E(\hat{\beta}_1) = \beta_1$ . In order to do that we start with the original model:

$$Y_i = \beta_0 + \beta_1 X_i + u_i. \tag{1}$$

First, we can sum this model over  $i$  ( $i = 1, 2, \dots, n$ ), which would give:

$$\sum_{i=1}^n Y_i = n\beta_0 + \beta_1 \sum_{i=1}^n X_i + \sum_{i=1}^n u_i$$

Then we divide this model by  $n$  and obtain:

$$\bar{Y} = \beta_0 + \beta_1 \bar{X} + \bar{u} \tag{2}$$

Subtracting (2) from (1) yields:

$$Y_i - \bar{Y} = \beta_1 (X_i - \bar{X}) + u_i - \bar{u}.$$

# Answers Exercises Undergraduate Econometrics

**PT Brinkman**



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## **Table of Contents Answers Exercises Undergraduate Econometrics**

1. Understanding the eBook Answers Exercises Undergraduate Econometrics
  - The Rise of Digital Reading Answers Exercises Undergraduate Econometrics
  - Advantages of eBooks Over Traditional Books
2. Identifying Answers Exercises Undergraduate Econometrics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Answers Exercises Undergraduate Econometrics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Exercises Undergraduate Econometrics
  - Personalized Recommendations
  - Answers Exercises Undergraduate Econometrics User Reviews and Ratings
  - Answers Exercises Undergraduate Econometrics and Bestseller Lists
5. Accessing Answers Exercises Undergraduate Econometrics Free and Paid eBooks
  - Answers Exercises Undergraduate Econometrics Public Domain eBooks
  - Answers Exercises Undergraduate Econometrics eBook Subscription Services
  - Answers Exercises Undergraduate Econometrics Budget-Friendly Options
6. Navigating Answers Exercises Undergraduate Econometrics eBook Formats

- ePub, PDF, MOBI, and More
- Answers Exercises Undergraduate Econometrics Compatibility with Devices
- Answers Exercises Undergraduate Econometrics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answers Exercises Undergraduate Econometrics
  - Highlighting and Note-Taking Answers Exercises Undergraduate Econometrics
  - Interactive Elements Answers Exercises Undergraduate Econometrics
- 8. Staying Engaged with Answers Exercises Undergraduate Econometrics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answers Exercises Undergraduate Econometrics
- 9. Balancing eBooks and Physical Books Answers Exercises Undergraduate Econometrics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answers Exercises Undergraduate Econometrics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Answers Exercises Undergraduate Econometrics
  - Setting Reading Goals Answers Exercises Undergraduate Econometrics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers Exercises Undergraduate Econometrics
  - Fact-Checking eBook Content of Answers Exercises Undergraduate Econometrics
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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