

**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 β_0 and β_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 β_0 and β_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 β_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

Yan Bai



Answers Exercises Undergraduate Econometrics:

The Top Books of the Year Answers Exercises Undergraduate Econometrics The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Answers Exercises Undergraduate Econometrics : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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