

**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:

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

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