

Econometrics Problem Set 2

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1 Question 1

$$y_i = \beta_0 + \beta_1 x_i + \epsilon_i$$

$$c_1 y_i = \beta_0 + \beta_1 c_2 x_i + \epsilon_i'$$

Replacing y_i with $\beta_0 + \beta_1 x_i + \epsilon_i$, we have:

$$c_1(\beta_0 + \beta_1 x_i + \epsilon_i) = \beta_0 + \beta_1 c_2 x_i + \epsilon_i'$$

$$c_1 \beta_0 + c_1 \beta_1 x_i + c_1 \epsilon_i = \beta_0 + \beta_1 c_2 x_i + \epsilon_i'$$

Equating the coefficients of the independent variable $\rightarrow c_1 \beta_1 = \beta_1 c_2$

$$\beta_1' = \frac{c_1}{c_2} \beta_1$$

Equating the constants $\rightarrow c_1 \beta_0 = \beta_0$

$$\beta_0' = c_1 \beta_0$$

Alternatively, we can derive this result using the formula for β_1 and β_0

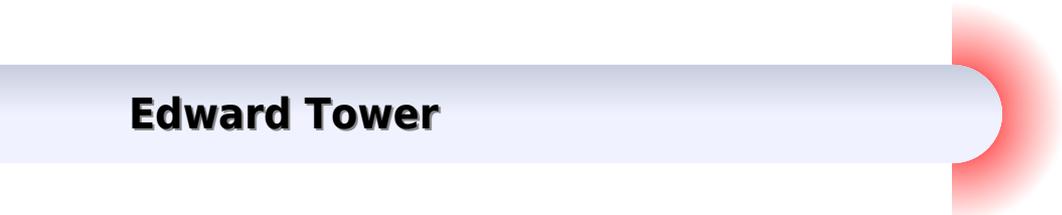
$$\begin{aligned}\beta_1' &= \frac{\sum_{i=1}^n (c_2 x_i - c_2 \bar{x})(c_1 y_i - c_1 \bar{y})}{\sum_{i=1}^n (c_2 x_i - c_2 \bar{x})^2} \\ &= \frac{c_1 c_2 \sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y})}{c_1^2 \sum_{i=1}^n (x_i - \bar{x})^2} \\ &= \frac{c_1}{c_2} \beta_1\end{aligned}$$

With this result, we can compute β_0' as:

$$\begin{aligned}\beta_0' &= c_1 \bar{y} - c_2 \beta_1' \bar{x} \\ &= c_1 \bar{y} - c_2 \frac{c_1}{c_2} \beta_1 \bar{x} \\ &= c_1 (\bar{y} - \beta_1 \bar{x}) \\ &= c_1 \beta_0\end{aligned}$$

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Current Index to Statistics, Applications, Methods and Theory, 1987 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **Books in Print**, 1982 *Journal of the American Statistical Association* American Statistical Association, 1998 **Current Law Index**, 1987 *Applied Econometrics* William F. Lott, Subhash C. Ray, 1991 [Econometrics Volume 2: Topics For Time Series And Large Panel Data](#) Pierre Perron, 2025-08-28 This book is intended for graduate instruction in subjects like econometrics economics environmental science social science and many other fields at the Masters or PhD levels It can be used as a textbook or as a reference guide Several aspects in the book depart from traditional treatments The emphasis is on understanding the main issues concepts and methods in Econometrics how to implement them and how to interpret the results The mathematical aspects are kept to a minimum as the aim is to provide an intuitive understanding of how various parts fit together as opposed to a sophisticated mathematical treatment of the subject Many examples and discussions are provided Hence minimal mathematical pre requisites are needed Extensive references are also provided to dig deeper into the mathematical aspects of the theories The second volume deals with various estimation and inference methods applicable when using time series data or with panel data having a large time dimension The treatment covers both stationary and non stationary i e unit root data as well as long memory processes Also covered extensively are issues related to structural change including estimation and inference methods with stationary and or non stationary data related issues in the context of forecasting and methods to address the interplay between changes in trends and unit roots [Exercises in Econometrics](#) P. C. B. Phillips, M. R. Wickens, 1978 **Econometrics Exams, Puzzles & Problems** Edward Tower, 1990 [Econometrics](#) Kate Brown, Theodore E Brown, 1990 **Econometric techniques and problems** Conrad Emanuel Victor Leser, [Topics In Advanced Econometrics](#) Phoebus J. Dhrymes, 2011-09-21 This book is intended for second year graduate students and professionals who have an interest in linear and nonlinear simultaneous equations models It basically traces the evolution of econometrics beyond the general linear model GLM beginning with the general linear structural econometric model GLSEM and ending with the generalized method of moments GMM Thus it covers the identification problem Chapter 3 maximum likelihood ML methods Chapters 3 and 4 two and three stage least squares 2SLS 3SLS Chapters 1 and 2 the general nonlinear model GNLM Chapter 5 the general nonlinear simultaneous equations model GNLSEM the special case of GNLSEM with additive errors non linear two and three stage least squares NL2SLS NL3SLS the GMM for GNLSEIV and finally ends with a brief overview of causality and related issues Chapter 6 There is no discussion either of limited dependent variables or of unit root related topics It also contains a number of significant innovations In a departure from the custom of the literature identification and consistency for nonlinear models is handled through the Kullback information apparatus as well as the theory of minimum contrast MC estimators In fact nearly all estimation problems handled in this volume can be

approached through the theory of MC estimators The power of this approach is demonstrated in Chapter 5 where the entire set of identification requirements for the GLSEM in an ML context is obtained almost effortlessly through the apparatus of Kullback information

Exercises in Econometrics P. C. B. Phillips, M. R. Wickens, **Intermediate and Advanced Econometrics** Stanislav Anatolyev, 2005

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