

Econometrics Problem Set 2

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October 10th, 2024

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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Huangqi Zhang



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Exercises in Econometrics P. C. B. Phillips, M. R. Wickens, 1978 Topics In Advanced Econometrics Phoebus J. Dhrymes, 1989 This textbook is intended for graduate students and professionals who have an interest in linear and nonlinear simultaneous equation models These models arise in a great many settings in econometrics The author's aim is to present a readable account starting from an introduction to the general linear structural econometric model From there the book covers the identification problem maximum likelihood methods two and three stage least square methods the general nonlinear model and more advanced topics such as the general nonlinear simultaneous equations model The reader is assumed to have a basic background in probability theory but otherwise this account is self contained

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