

Econometrics Final Exam Solutions
 Universidad Carlos III de Madrid
 May 20th, 2015

Answer all questions in two hours and a half.

QUESTION 1 (33 marks): A researcher is considering two regression specifications to estimate the relationship between a variable X and a variable Y ,

$$\log Y = \beta_0 + \beta_1 \log X + U \quad (1)$$

$$\log \frac{Y}{X} = \alpha_0 + \alpha_1 \log X + V, \quad (2)$$

where the Greek letters refer to parameters and X and Y are two random variables for which we have a random sample of size n .

a. (8 marks) Determine whether (2) can be expressed as a restricted version of (1).

(2) can be rewritten as

$$\log Y = \alpha_1 + (\alpha_2 + 1) \log X + U'$$

so this is a reparametrized version of (1) with $\beta_1 = \alpha_1$ and $\beta_2 = \alpha_2 + 1$, but NOT a restricted version since it does not impose any restriction on the values of β_1 or β_2 .

b. (7 marks) Using the same n observations of the variables Y and X , the researcher fits the two specifications using ordinary least squares (OLS). The fits are

$$\widehat{\log Y} = \hat{\beta}_1 + \hat{\beta}_2 \log X \quad (3)$$

$$\widehat{\log \frac{Y}{X}} = \hat{\alpha}_0 + \hat{\alpha}_1 \log X, \quad (4)$$

where the Greek letters with hats are the estimated values by OLS. Using the expressions for the estimates, write $\hat{\beta}_2$ in terms of $\hat{\alpha}_1$.

Write

$$y = \log Y$$

$$x = \log X$$

$$z = \log \frac{Y}{X} = y - x,$$

so that

$$\begin{aligned} \hat{\alpha}_1 &= \frac{\sum (x_i - \bar{x})(z_i - \bar{z})}{\sum (x_i - \bar{x})^2} = \frac{\sum (x_i - \bar{x})(y_i - x_i - (y - x))}{\sum (x_i - \bar{x})^2} \\ &= \frac{\sum (x_i - \bar{x})(y_i - y)}{\sum (x_i - \bar{x})^2} = \hat{\beta}_2 - 1. \end{aligned}$$

Basic Econometrics Exam Questions And Answers

G Thomas



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make a profit In a capitalist economy capital assets such as factories mines and railroads can be privately owned and controlled labor is purchased for money wages capital gains accrue to private owners and prices allocate capital and labor between competing uses Although some form of capitalism is the basis for nearly all economies today for much of the past century it was but one of two major approaches to economic organization In the other socialism the state owns the means of production and state owned enterprises seek to maximize social good rather than profits *The Influence of Uncertainty in a Changing Financial Environment* Ricardo A. Halperin,2017-01-21 This book examines the role of uncertainty on financial decisions and consequently on financial markets in the buildup to and aftermath of the Great Recession It tracks the significant growth and important structural changes in the financial sector during the past few decades both of which made the economy more vulnerable to perceptions of risk in the markets Halperin argues that conventional economic models have lost relevance by failing to take these developments into account appropriately and also explains that because of financial globalization we can no longer understand what happens in the economies of major countries by relying on closed economy thinking The book concludes with a list of policy recommendations designed to increase the resilience of the financial markets to negative economic developments and to reduce incentives for risk taking including a proposal to eliminate the double taxation of dividends **AMSTAT News** American Statistical Association,2002 **FCC Record** United States. Federal Communications Commission,1994 *Books in Print Supplement* ,1979 **Basic Econometrics** Damodar N. Gujarati,1988 Gujarati s Basic Econometrics provides an elementary but comprehensive introduction to econometrics without resorting to matrix algebra calculus or statistics beyond the elementary level Because of the way the book is organized it may be used at a variety of levels of rigor For example if matrix algebra is used theoretical exercises may be omitted A CD of data sets is provided with the text *Which Degree?* ,1978 **American Book Publishing Record** ,1998 **Graduate Studies** ,1977 *Journal of Economic Literature* ,1998 **Principles of Macroeconomics** Fred M. Gottheil,1999 This text conveys the principles of microeconomics in a conversational style through a series of extended examples that students should relate and respond to Students are discouraged from simply memorizing facts and are engaged in active learning The book maintains a focus on presenting basic concepts in depth and developing the analysis step by step rather than covering hundreds of topics superficially *Whitaker's Cumulative Book List* ,1985 [Proceedings](#) Transportation Research Forum,1982 **ESRC Data Archive Bulletin** ,1991 **Paperbound Books In Print, Fall 1981** Bowker Editorial Staff,1981-11

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