

Econometrics

Lecture 8: Extension of Simple Regression: Functional Forms II Quiz

- Which of the following is an exponential function?
a. $f(x) = 2^x$ b. $f(x) = X^2$ c. $(x) = 1/x$ d. $(x) = -2^x$
- Logarithmic functions are the inverses of exponential functions. True / False
- Which one of the below is not the example of an exponential function?
a) Growth of bacteria b) Income and expenditure relationship
c) Compound Interest rate d) Population growth
- We call the function $Y = 2^x$ as exponential function because
a) Base is fixed and the exponent is a variable.
b) Base is variable and exponent is a fixed
c) Base is coefficient and exponents is variable
d) Exponents is coefficient and base is variable
- An exponential function is a function with the general form $y = ab^x$, where a is restricted to which of the following?
a) $a = 0$ b) $a > 0$ c) $a < 0$ d) $a \neq 0$
- Using the same equation $= ab^x$, which one of the following restrictions defines an exponential function?
a) $b = 1$, b) $b \neq 1$ c) $b \leq 1$ d) $b < 1$
- What do you mean by relative or proportional change?
- Which one of the following models measure growth rate?
a. Linear equation b) log-linear equation
b. Linear log regression d) Reciprocal Model
- Regression coefficients in a log-linear model represent the slope. True/False