

# EPPS 6316 : Recitation Session #4

Oct. 5. 2012

## Questions?

- You learned :
- Confidence Interval, Normality test, Standardized coefficient
- Lin-Lin, Log-Lin, Lin-Log, Log-Log model
- Multicollinearity, Adjusted  $R^2$
- etc.

## Problem 1

Interpret the  $\beta$  :

$$\ln(Y_i) = \alpha + \beta_1 x_{1i} + \beta_2 \ln(x_{2i}) + \beta_3 \frac{1}{x_{3i}}$$

## Problem 2

Which variable has the largest effect on  $Y$

$$Y_i = 37 + (0.4)x_{1i} + (-0.6)x_{2i} + (0.02)x_{3i}$$

Variable	Std.Dev
$Y$	13
$x_1$	9
$x_2$	40
$x_3$	80

**Problem 3**

Calculate standard error of  $\beta$

$$Y_i = -4.9 + (0.93)x_{1i} + (0.11)x_{2i}$$

Given  $s = 0.1$ ,  $\sum(x_{1i} - \bar{x})^2 = 5$ ,  $\sum(x_{2i} - \bar{x})^2 = 8$ .

Corr	$y$	$x_1$	$x_2$	
	1			
	$y$	0.38		
	$x_1$	0.38	1	
	$x_2$	0.09	-0.35	1