	Date		•
Econometrics HW3 陈暗			
EX 5.1		•	
(a) The 95% confidence interval of B1 is			
[-5.82-1.96x2.4] -5.82+1.91x2.4]			
= [-10.152,-1.4884].			
(b) We want to test			
Ho: B1 > 0, H1: B1 \$ 0.			
The test statistic is:			
$t = \frac{\hat{\beta_1} - o}{SE(\hat{\beta_1})} = -2.6335.$			
The p-value for the hypothesis test 15:			
P-value = 20 (-1+1) = 20 (-2.6335) = 0.008451 <0	.05.		
Therefore we reject to at the significance level $\alpha = 5\%$ .  (c) The t-statistic is			
co) The t-statistic is			
$t = \frac{\hat{\beta_1} - (-516)}{8E(\hat{\beta_1})} = 0.09955$			
SE(Bi)			

The p-value is:  $p-value > 2\sqrt[3]{-|t|} > 2\sqrt[3]{-0.0955} > 0.920770.05$ Therefore we fail reject to at the significance level x = 0.05, i.e. -5.6 is contained in the 95% confidence interval for  $\beta_1$ .

(d) The 99% antidence interval for  $\beta_0$  is:  $[520.4 \pm 2.58 \times 20.4] = [46/.7, 5/3.0]$ 

		Date
EX5.9.		bil
(a) Since	STA	he entranged generally
$\overline{B} = \overline{\overline{Y}} = \overline{Z}$	カー、「ハナインナーナー」	614
therefore $\bar{\rho}$ is a linear fi	anotion of Ti, Try", In.	i springe-i de
cbs. Since ElTo XIXIN,	Xu = B1 Xz therefore	
Elolx,	Xx, m, Xn) > E[nx(1/1+"+	Tn) (x,, xn)
	$=\frac{1}{NX}\cdot\beta_1\cdot(X_1+\dots+X_n)$	Xy) zi sukov-9
-	0.0 > 0 B1 (888.2-) \$	P-VALUE > 2
	70-0=0	fore we reject the Ho at
EX 5.13.	ivel from gendargic	The Arg confidence inter
ca). True		[16.0x696x0.31]
(b) True	14+4.10=14.69	Maan Wage of Mean 3 ld.
(c) Obviously unchange		- of females
(d) (a) is true, and		true since the errors are
not conditionally homos	cedasticity Amazy	Wage 319.14 -a
abundany variables	t of the dwice of expl	and Six orkinologendau

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