Name:	Student ID:
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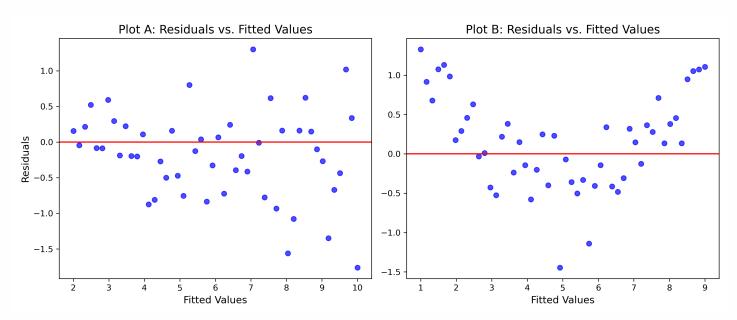
ECON 0150 | MiniExam 07 | Demo

This MiniExam will take 8 minutes with a quick break to follow. MiniExams are designed to both test your knowledge and challenge you to apply familiar concepts in new environments. Treat it as if you're trying to show me that you understand the material. Answer clearly, completely, and concisely.

Academic Conduct Code

The following academic conduct code is designed to protect the integrity of your work. Print your name/initials beside the three academic honesty agreements. I pledge to my fellow students, the university, and the instructor, that:

- ____ I will complete this MiniExam solely using my own work.
- ____ I will not use any digital resources unless explicitly allowed by the instructor.
- I will not communicate directly or indirectly with others during the MiniExam.
 - 1. The following figure shows two residual plots.



- a) Plot A shows a violation of:
 - □ Linearity
 - □ Normality
 - □ Homoskedasticity
 - □ Independence
- b) The appropriate fix for the issue in Plot A would be:
 - □ Transform the dependent variable
 - □ Add a squared term to the model
 - ☐ Use robust standard errors
 - □ Remove outliers

	residuals show i	ncreasing sp	read with larg	ger fitted val	ues, this viol	ates:				
	inearity									
	Iormality									
	Iomoskedasticit _: ndependence	у								
L 11	шереписпес									
2	d. A labor econo hourly wages	_		*	-		•	ence (in years), and		
		OLS Regression Results								
		coef	std err	t	P> t	[0.025	0.975]			
	Intercept	5.427	1.203	4.512	0.000	3.019	7.836			
	education	1.238	0.182	6.803	0.000	0.874	1.602			
	experience	0.452	0.073	6.189	0.000	0.306	0.598			
b) IntFET	schools with c els (in hundre	icient for exp nal year of ex nal year of ex 52 times mor etween exper researcher v different leve	erience in this perience, hou perience, hou perience, hou e important the rience and war vants to study ls of per-pupi per student)	× experiences model. rly wage incomman education and education and education are successive to the su	creases by \$0 creases by 0.4 on in determinant tudent perfo hey have data	452%, holdir ining wages rmance on s ta on test sco	eg education constant standardized to the stan	tests differs between le) and funding lev-		
sure	hat regression methe relationship estScore = $\beta_0 + \beta_1$ estScore = $\beta_0 + \beta_2$ unding = $\beta_0 + \beta_2$ eg(TestScore) = β_1	between fun 31 × Funding 31 × I(Fundin 1 × TestScore	ding levels are $+ \varepsilon$ $g > median$) $+ \varepsilon$	nd test score	_	estion if the	researcher wa	ants to directly mea-		
resid T T	te researcher fits uals, they notice he relationship l he model has be he R-squared va here is no signif	e a curved pa between fund etter predictivalue must be	ttern rather the ding and test ve power than very high	nan a randor scores is nor n expected	m cloud. This	s indicates:	ent for funding	g. After checking the		