Name Signat This	and student ID ure exam contains 4 pages points is 40.				
	Gr	ade Table (fo	or teache	r use or	uly)
		Question	Points	Score	
		Problem 1	22		
		Problem 2	18		
		Total:	40		
(a)	and write it down.	e average sh	are of In	uernet 1	users in the sample of countries
(b)					ternet called facebookUseClass the country is lower than 32%
(c)	$(1\ \mathrm{point})$ Create a new variable called lowFacebookUse that is TRUE if facebookUseClasequals 'low' and FALSE otherwise.				
(d)	(1 point) How many countries in the sample have a low (as defined above) share of Facebook users? Write down the answer.				
(e)	(3 points) Estimate th	ne linear regr	ession m	odel:	
	pei	$ \text{netration}_i = $	$\beta_0 + \beta_1 \log \beta_0$	wFaceb	$\operatorname{ookUse}_i + u_i$

(h) (6 points) The friend of yours is not sure about the theoretical foundations of your test and asks you to explain the assumptions behind the test. Due to the small sample size you know that you need to examine the normality of the data. Use a graphical check to asses the plausibility of the normality assumption. Write down

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(d) (5 points) Interpret the regression coefficients (pay attention to the scales of the variables). What is the meaning of the intercept in this model?

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