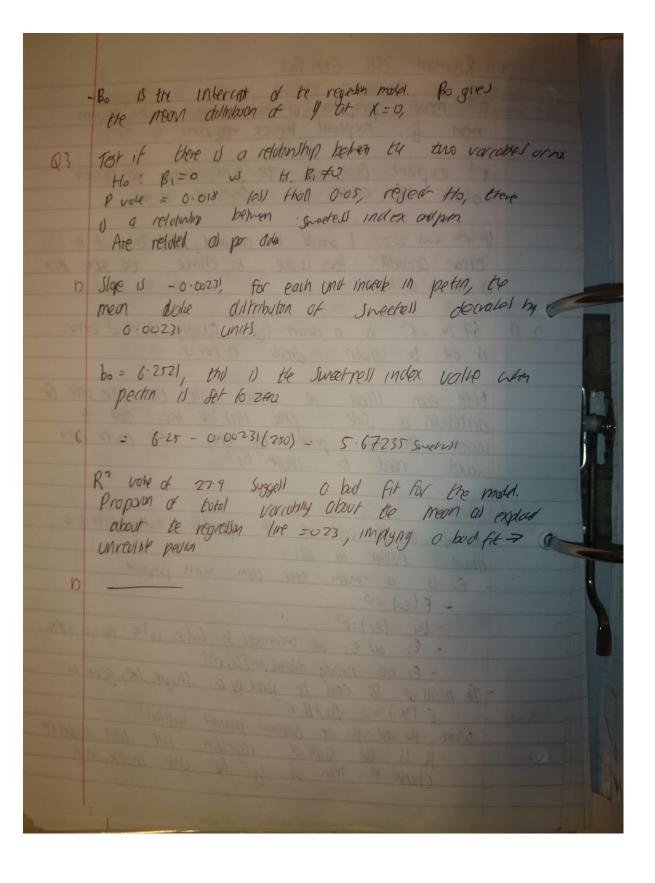
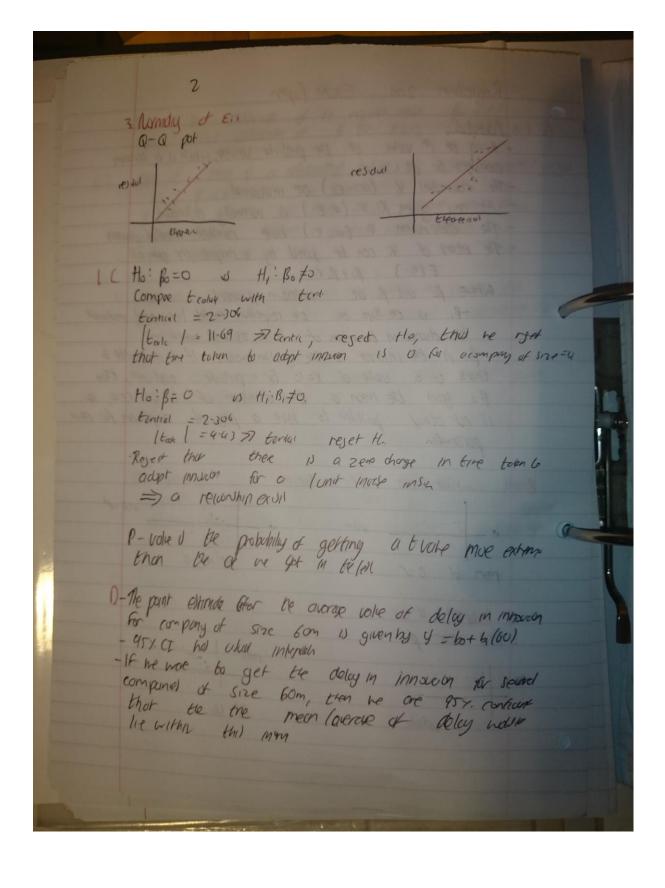


3 Regration 2012 Exam Par R2 mean proporting of lold varide about te mon nem g, explosed by the register r2 expans Gy of the total unotion in the dole about the avoice y. Goes or 0 71. If it was zox I voiled be concered, \$1 20x of the error accounted for is due to chance, the ster 80x 67-24 = R is a decent figue, religibly 70% of error is due to various should be now it. With each income in male value the men color for distribution of Sale price rise) by 6/11, That to increase the sale price by one, the mater value would need to invest by? E. Assumptingent: - Xi 1) We in value of the predicts vorwhle, which if a Kravn contur for ali. - Ei i) a random error term with proportd - Eleil =0. - Va (E;)=02 - E: and ET are incorrelated so Cov(Ei, E5)=0 for i, T i 7 m - E: oe romally distribut N-(0, or) The mean of 4i can be joined by a Straight like, given as:

E (4i) = BotB, Xi. Where Bo and BI are unlimm paramed Such that: - B. is the slope of regression line and indicate be charge in rear of y for unit investe in x



Regrassion 2011 Exam Paper	
13 % jubral Z	
a Asimposi.	
- Xi is the 1th value of the predictor variable, which is a wrown	1
constant or all I	
The Handhal U. (or E;) OF IN Clephant.	
At an augh Xi 9 (or Ei) 13 MIMORY WITHOUT	
The observation is for Ei) have consider second decision	
- The means of 4i con be jured by a straight in	-
$E(g_i) = \beta \circ t \beta_i x$	
where to and the are unknown paramet like and indicate	
-BI I the Mape of the regression model. The and indials	
the change in the mean of y for one unit much in x.	
-Bo is the interest of the regrestor model. It it is sentitle to think of a volve of X=0 for a particular opplication, then	
thirt of a vole of 1-0 is the dilimiten of y of x=0, if	
Bo gue the man of the distribution of y of x=0, it is not alway possible to have a physical explanan for the	
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Regression 2011 Exam Paper A pant estimule for the colony time for a single company of size 60m is also g' - bo + bi (60) But a 95% PT refers to the interval within which the the delay time of that single company of size-6cm will lie with 95%. Confidory They are different sine to would be delay tire or a single to is much greater than the vorcebility at the ass single observer = men + chane verion That is why 95 x PI are vider too 95%CZ. A 60m company, book: Single inter 1 20 ness PI = (4.93, 2402) If he were to belt to tho: 4'=20 is H; V'+20 ton from PI we see that null hypoth will not be rected -> 20 can be accepted of a good point estimer for the popular 11 35 weeks It we were to tell Ho 4'=35 0) H, 4'731, from Pr we can reject the accepted of a good elmy for the predate of dolay tru 6. 41 7 object 4 5 -> mean of y; for all 9 SSTO = SSR +SST

5 (9; -9)2 = 5(G, -g)2 + 8(4; -G,)2 near 9, 0) explosed by the regular line