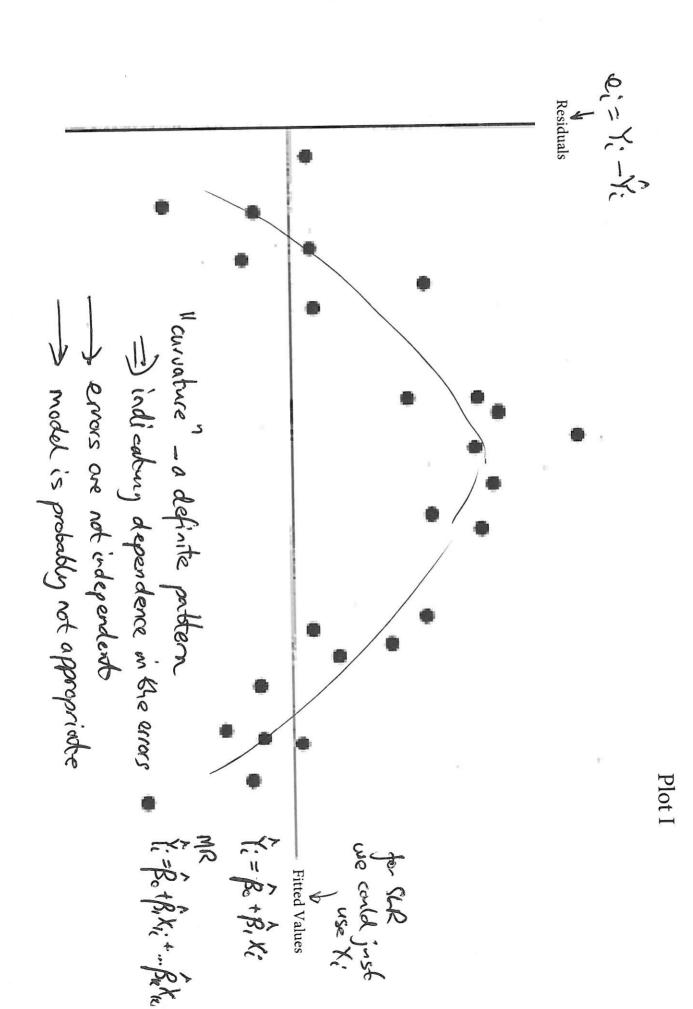
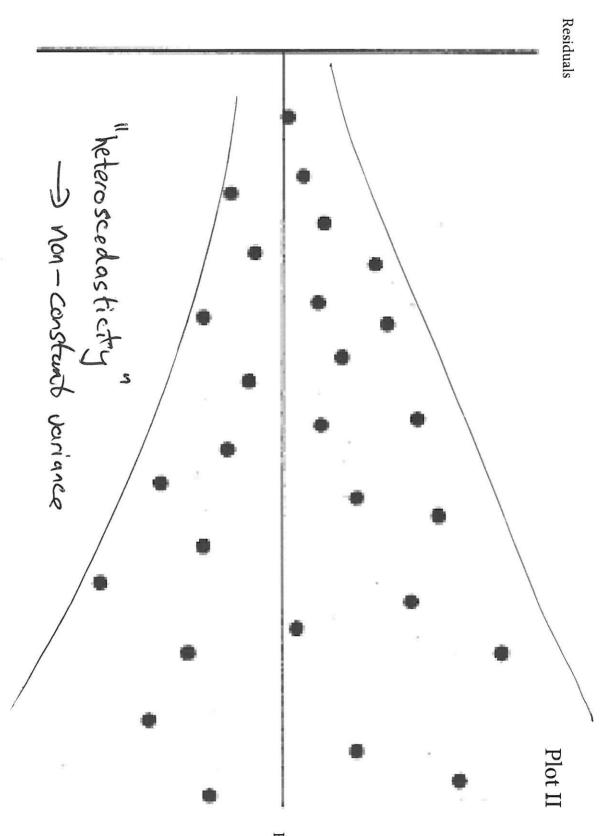
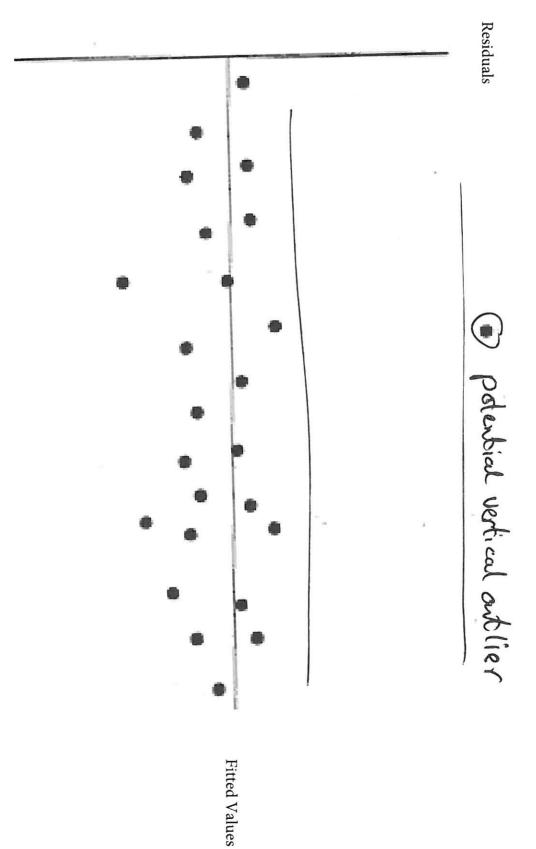
STATIZOOS/4036/6038 Regression Modelling	23/3/2017 (
Assessing the underlying (model-specific) assumpt	jons
Ei 2 N (0, 62)	
A B C D	
A iid = independent & identically distributed	
B N = normally distributed errors	
c mean of distribution is 0 (guaranteed by the least squares estimation — not really an assumption)	
p constant variance & (nonescertastic	idy)
We assess these assumptions using the rest	lerrors)
e: = Y: - Y: i=1,2,	
e we do this assessment using residual plots	
Key assumptions (in order of importance)	
1) errors are independent (no obvious pat	ntern)
2) errors are identically distributed with cons (homoscedastic errors)	itant
(Monte see List distributed	
(3) errors are normally historibushed	
Use residual plots:	100
Ose residuals possessed using a plot (standardisch) residuals us fitted values (standardisch) residuals us fitted values "pain" residual plot (standardisch) residuals using a normal gnanbile plot	9.00
3) is best assessed using a normal quantile	e (99 plot)
other plots may be useful in diagnosing	(getbing
other plots may be useful in diagnosing more detail on) problems observed in the main plot (a occassionally the normal 99 plot)	n restaul





Fitted Values



Plot III

