Heteroscedasity

	- unbiased, consistent, inefficient est.
	Test: GQ test, White test
	Solve: WLS, Robust s.e. (Whites.e.)
	Stochastic Regressas
(n)	12 = B, + Bz. Et Gt
det	ezminstic stochastie
	Model w: 12
	Stoch. repressors
	1. model is linear and whethy specified
	M= 81+ 82.2.2.4
	2. Obs 4 (xi, yi), i=1, n h i.i.d.
	3. $E(x_i^i) < \infty$, $E(y_i^i) < \infty$
	(4.) E(q; 12hi) = 0 5th. no multi col. w.p.1.
	Under 1-4 Bos is consistent and

if 4th an. violated => regre. are indopenions => for one inconsistent and Col. 1 F(4: (ni) = 0 => F(4) =0 0= E(E((4) 2i)) = E(4) = 0 $Co(2. E(2i|xi) = 0 \Rightarrow Cov(4i,xi) = 0$ Cov (Gi, Ni) = E(GiXi) - E(Gi) E(Xi) E(Gixi) = E(E(gixi(x)) = E(x; E(gi(x;))=0=) cov(x;, ei)=0 if 4th an. violated => regre. ou indépensions cov (x; 4) + 6 for one inconsistent and bicused

$$\frac{Cov(x; , \beta, + \beta xx; + \beta, \cdot w; + \alpha;)}{Van(x;)} = \frac{Van(x;)}{Van(x;)}$$

$$0 + \beta^{2} + \beta^{3} \frac{Cov(x; , w;)}{Van(x;)} + \frac{Cov(x; , w;)}{Van(x;)}$$

$$= \beta^{2} + \beta^{3} \frac{Cov(x; , w;)}{Van(x;)} = \frac{P}{\beta^{2}}$$

$$\beta^{3} > 0 \quad , cov(x; , w;) > 0 \Rightarrow 0$$

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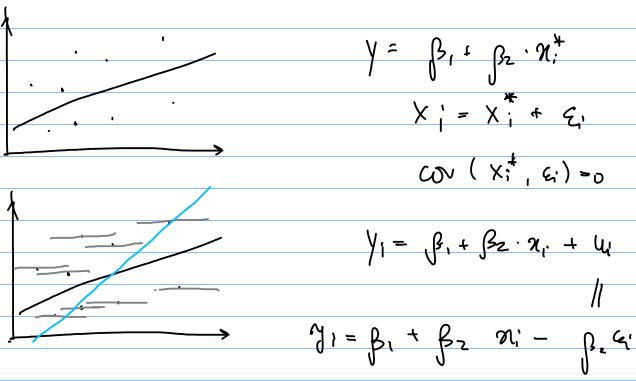
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$$\gamma^{3} >$$



$$\hat{\beta}_{2} = \frac{1}{\beta_{2}} + \frac{\cos(\kappa_{i}, u_{i})}{v_{an}(\kappa_{i})} = \frac{1}{\beta_{2}} + \frac{\cos(\kappa_{i}, u_{i})}{v_{an}(\kappa_{i})}$$

$$= \int_{2}^{2} - \frac{1}{\beta_{2}} - \frac{\cos(\kappa_{i}, u_{i})}{v_{an}(\kappa_{i})}$$

$$= \int_{2}^{2} - \frac{1}{\beta_{2}} - \frac{v_{an}(\kappa_{i})}{v_{an}(\kappa_{i})}$$

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towned zew.

