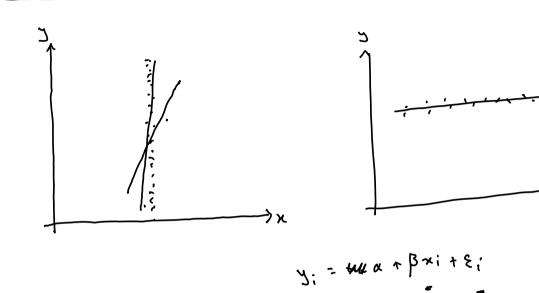
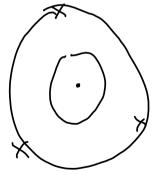
EC2020 Session 2

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$$Vor(\beta_2 \mid X) = \frac{g^2}{\sum (x_{2i} - \bar{x_2})^2} \cdot \frac{1}{1 - y^2}$$

$$=\frac{e^{2}}{(n-1)\sqrt{2}(\chi_{2i})}\cdot\frac{1}{1-\chi_{Xy}^{2}}$$



1)
$$\log(\omega_i) = d + \beta \log(p_i) + \epsilon_i$$

 $\hat{\omega} = 4.25$ $\omega_i = ml$. $\hat{\omega}_i^*$ in glanes
 $\hat{\beta} = -0.83$ $p_i = 168p$
1 glass: 175 n_i^*
 $\log(\hat{\omega}_i) = \gamma + \delta \log(p_i) + u_i$ $\omega_i^* = 175 \hat{\omega}_i^*$

and prod; =
$$\beta \circ + \beta$$
, and train; β and β are dispositely β .

$$\beta_1 = \frac{\partial}{\partial x} \text{ prod};$$

$$\beta_2 = \frac{\partial}{\partial x} \text{ prod};$$

$$\beta_3 = \frac{\partial}{\partial x} \text{ train};$$

$$\beta_4 = \frac{\partial}{\partial x} \text{ train};$$

$$\beta_5 = \frac{\partial}{\partial x} \text{ train};$$

$$\beta_5 = \frac{\partial}{\partial x} \text{ train};$$

$$\beta_6 = \frac{\partial}{\partial x} \text{ train};$$