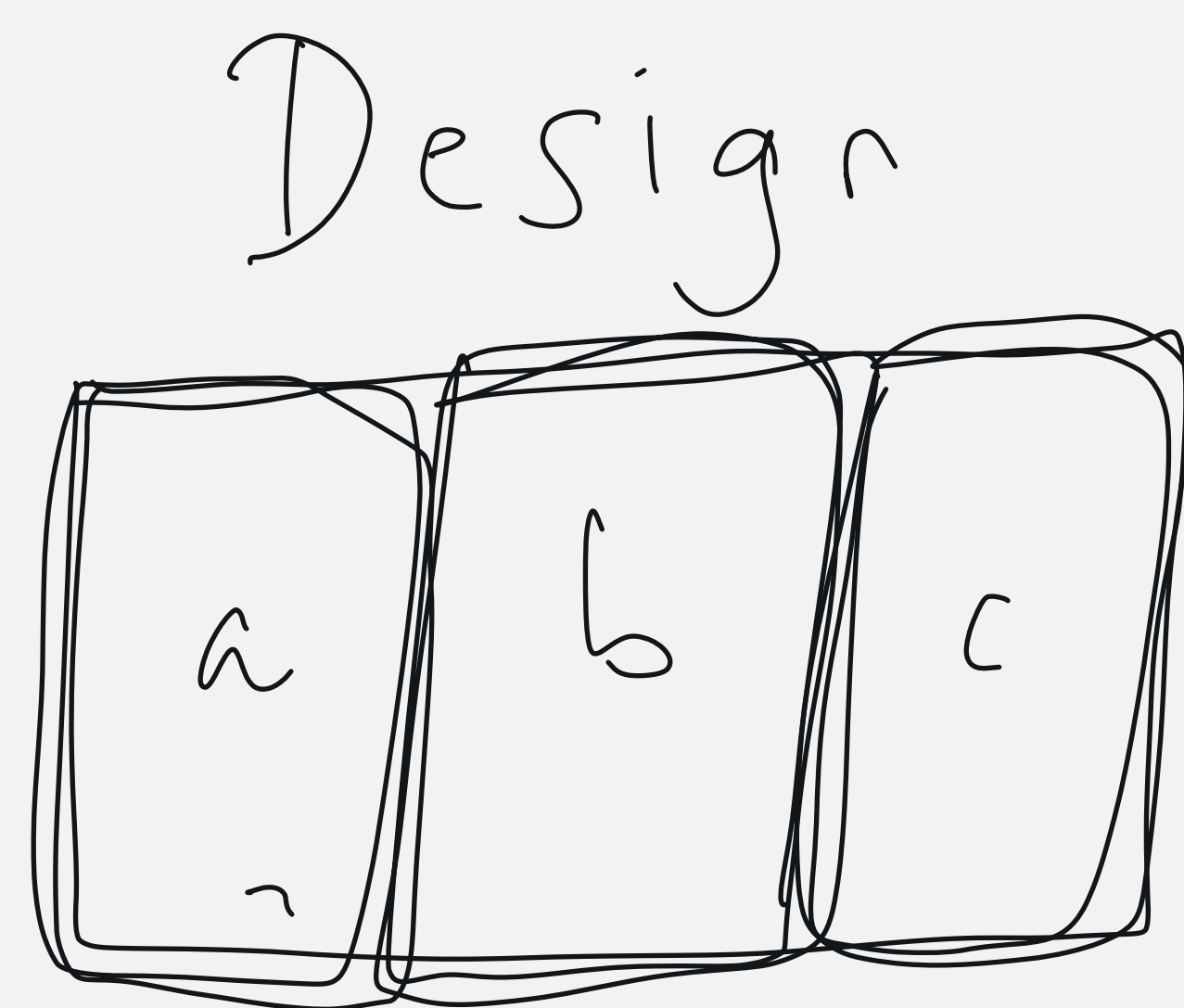
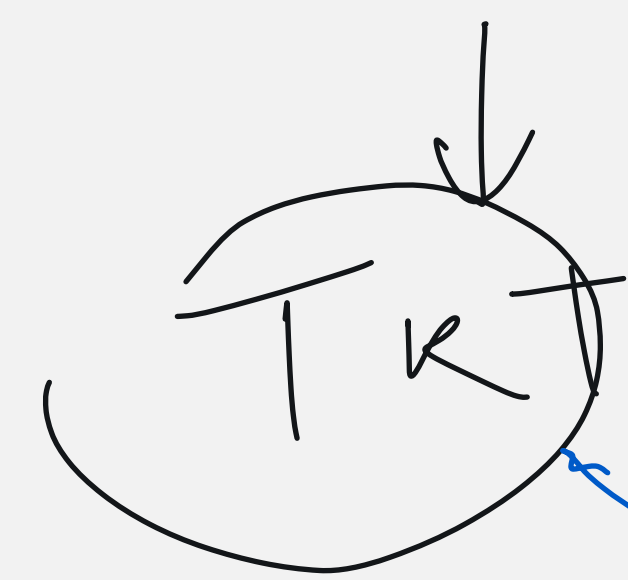
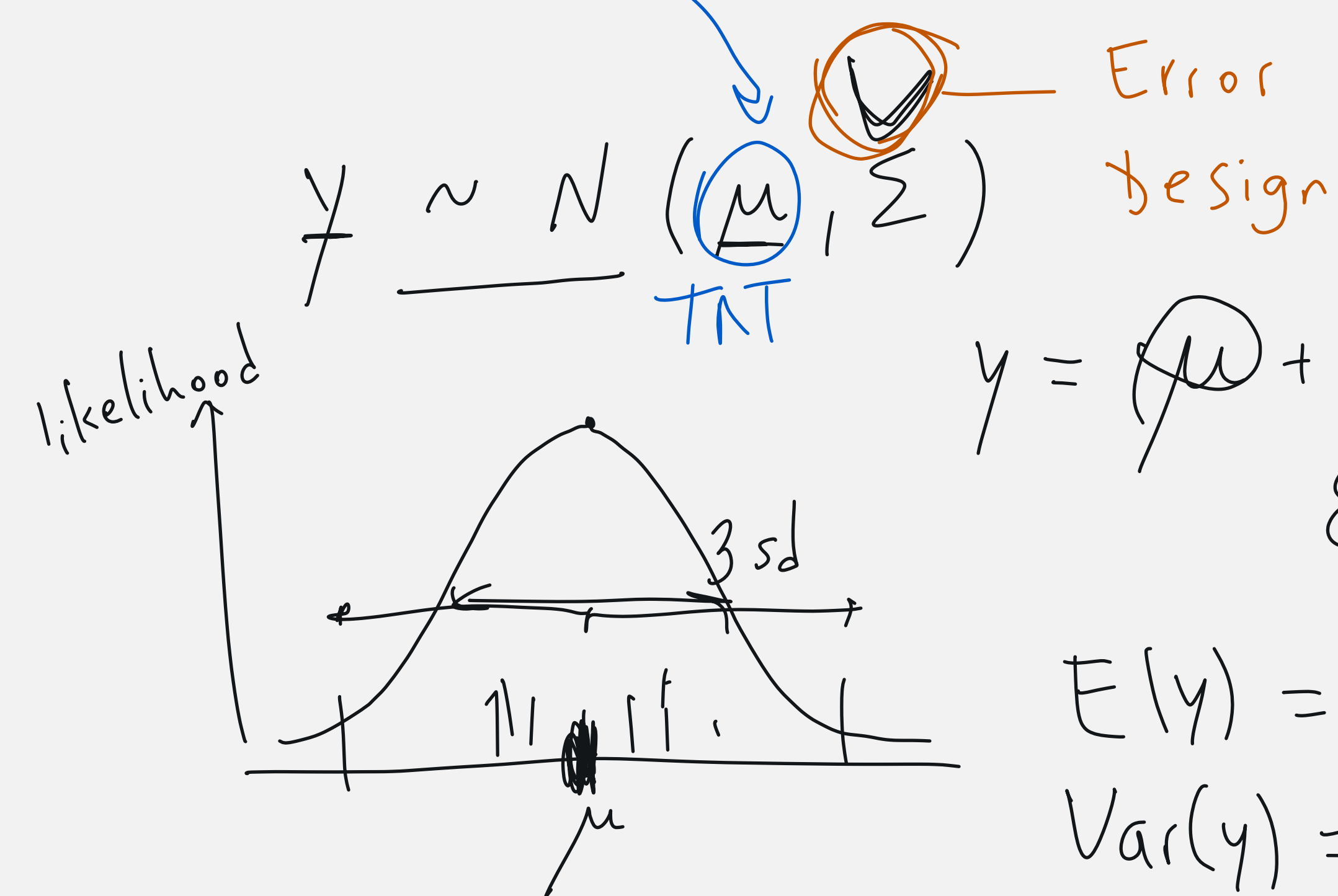


Research  
Question



topographical  
logistics



$$y = \mu + \epsilon$$

$$\epsilon \sim N(0, \sigma^2)$$

$$E(y) = \mu$$

$$\text{Var}(y) = \sigma^2$$

RCBT

$$y_{ijk} = \mu + T_j + \underbrace{b_k}_{\text{random}} + \epsilon_{ijk}$$

fixed  $\epsilon_{ijk} \sim N(0, \sigma^2)$

$$\hat{\beta} \sim N(\underbrace{\beta}_{\text{fixed}}, f(\sigma^2))$$

$$b_k \sim N(0, \sigma_w^2)$$

Model

$$\begin{bmatrix} y_1 \\ y_2 \\ y_3 \\ \vdots \\ y_m \end{bmatrix} \sim N$$

$\sim N$

TRT



$$\begin{bmatrix} \mu_1 \\ \mu_2 \\ \mu_3 \\ \vdots \\ \mu_m \end{bmatrix}$$

Design

