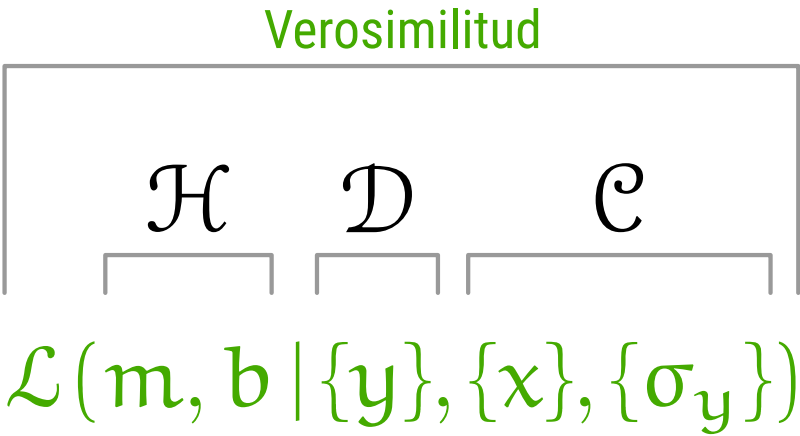
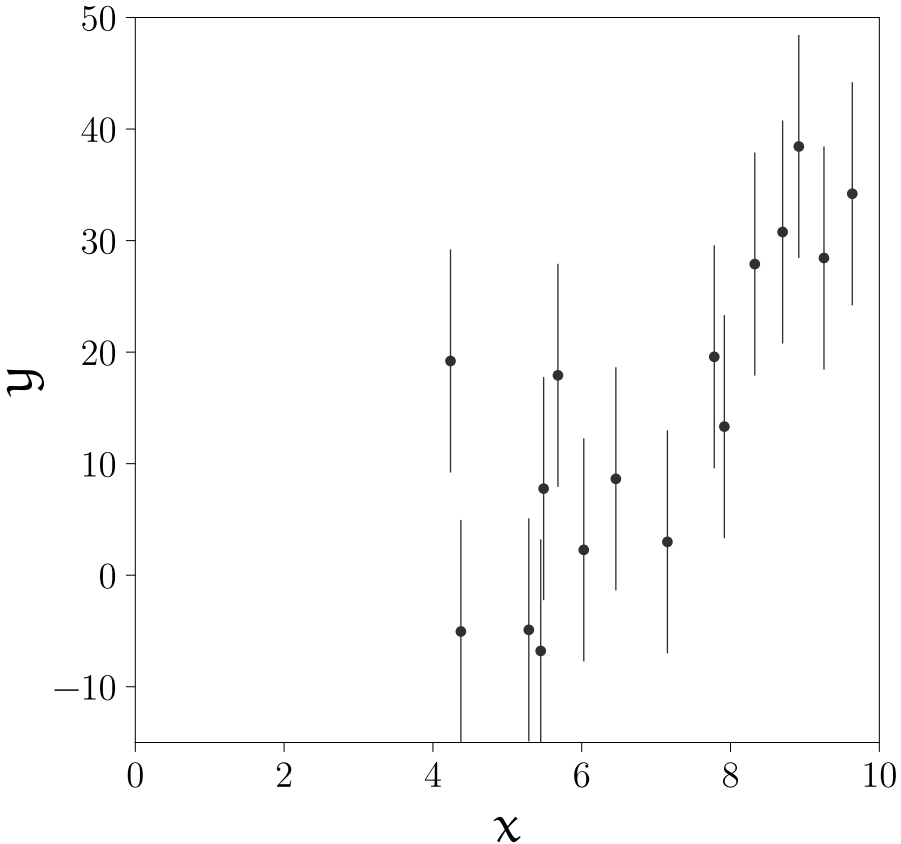


VEROSIMILITUD – REGRESIÓN LINEAL



$\{y\} \sim \text{Gaussiana}(\mu(\{x\}), \{\sigma_y\})$

$\mu(x) \equiv mx + b$

$$\mathcal{L}(m, b | \{y\}, \{x\}, \{\sigma_y\}) \propto \prod_i \exp \left[-\frac{(\mu(m, b; x_i) - y_i)^2}{2\sigma_{y_i}^2} \right]$$

The diagram shows the derivation of the likelihood function formula. It starts with the two orange expressions from the previous block, which are connected by lines to a large blue bracket containing the final formula: $\mathcal{L}(m, b | \{y\}, \{x\}, \{\sigma_y\}) \propto \prod_i \exp \left[-\frac{(\mu(m, b; x_i) - y_i)^2}{2\sigma_{y_i}^2} \right]$.