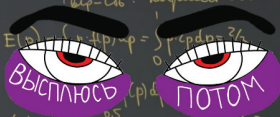


$E(p)$  и  $E(p|y_1, \dots, y_3) \leftarrow \text{опт. макс.}$   
 с)  $P(p > 0.5)$  и  $P(p > 0.5 | y_1, \dots, y_3)$

Вер-сть: красает данные



$$E(p) = \int_0^1 p \cdot f(p) dp = \int_0^1 p \cdot p dp = \frac{1}{2}$$

$$f(y|p) \cdot f(p) = \frac{p \cdot (1-p) \cdot p_1 \cdot z_{p_1}}{p^3 \cdot (1-p)}$$

$$f(p|y) = \begin{cases} 20 p^3 \cdot (1-p), & p \in [0, 1] \\ 0, & \text{else} \end{cases}$$

$$P(p > 0.5) = \int_{0.5}^1 20 p^3 \cdot (1-p) dp$$