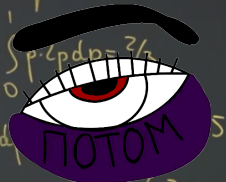


$E(p)$  и  $E(p|y_1, \dots, y_3) \leftarrow \text{определяется}$   
 c)  $P(p > 0.5)$  и  $P(p > 0.5 | y_1, \dots, y_3)$   
 (вер-с-я: карасей больше



$$E(p) = \int_0^1 p \cdot f(p) dp = \int_0^1 p \cdot 2p dp = 2/3$$

$$f(y|p) \cdot f(p) = \frac{p \cdot (1-p) \cdot p}{2} \cdot \frac{2p}{1} \sim \begin{cases} p^3 \cdot (1-p) \\ 0 \end{cases}$$

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

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