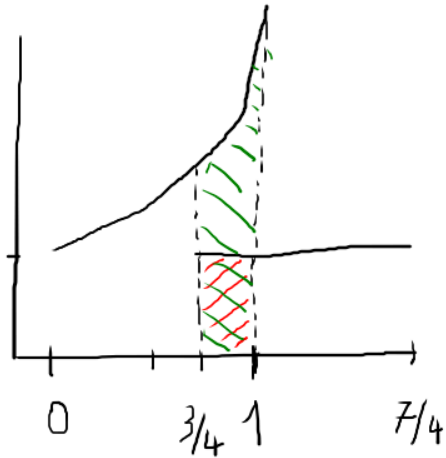


Exercise



$$\begin{aligned}
 \epsilon_B &= \int_{3/4}^1 p(c_2|x) \cdot p(x) \\
 &= \frac{\boxed{\text{red}}}{\boxed{\text{red}} + \boxed{\text{green}}} \cdot \frac{\boxed{\text{red}} + \boxed{\text{green}}}{2} = \frac{\boxed{\text{red}}}{2} \\
 &= \int_{3/4}^1 p(x|c_2) \cdot p(c_2) \\
 &= \boxed{\text{red}} \cdot \frac{1}{2}
 \end{aligned}$$