(1)
$$P(A) = \frac{1}{4}$$
 $P(B) = \frac{1}{3}$
 $P(B) = \frac{2}{3}$

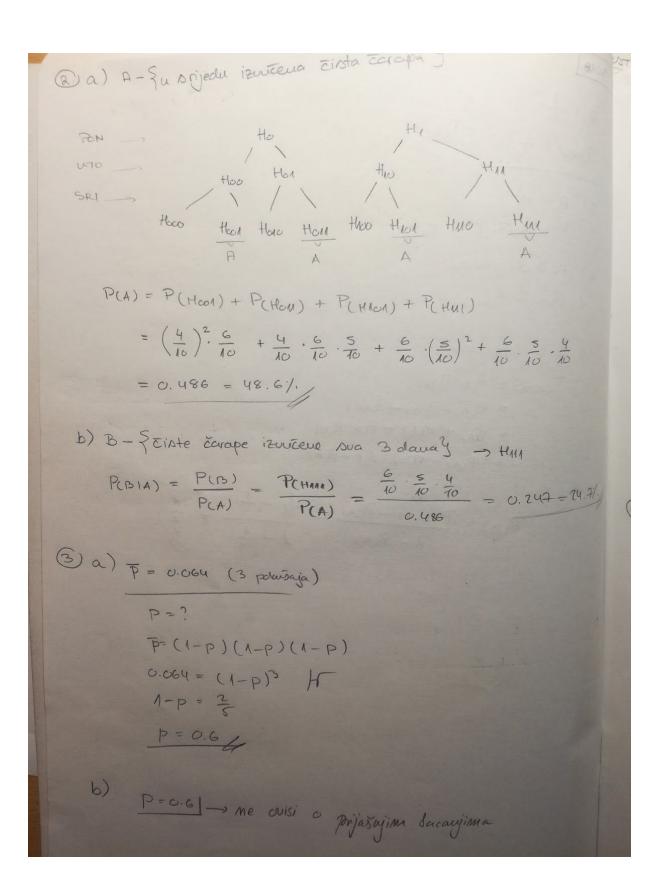
$$P(AUB) = P(A)P(B)$$

$$= P(A) - P(B) - P(AB)$$

$$= P(A) + P(B) - P(A)P(B)$$

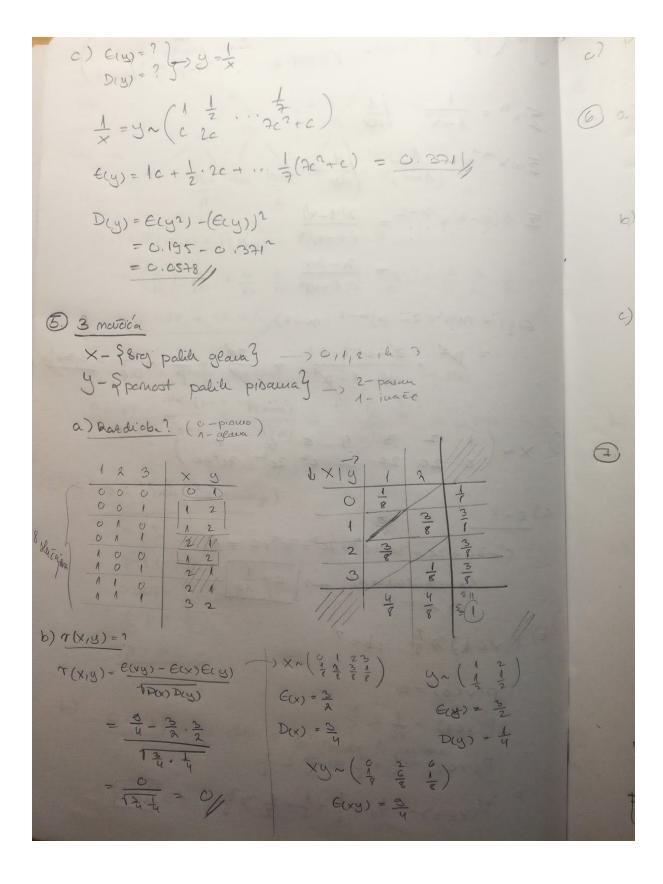
$$= P(A) + P(B) \cdot (1 - P(A)$$

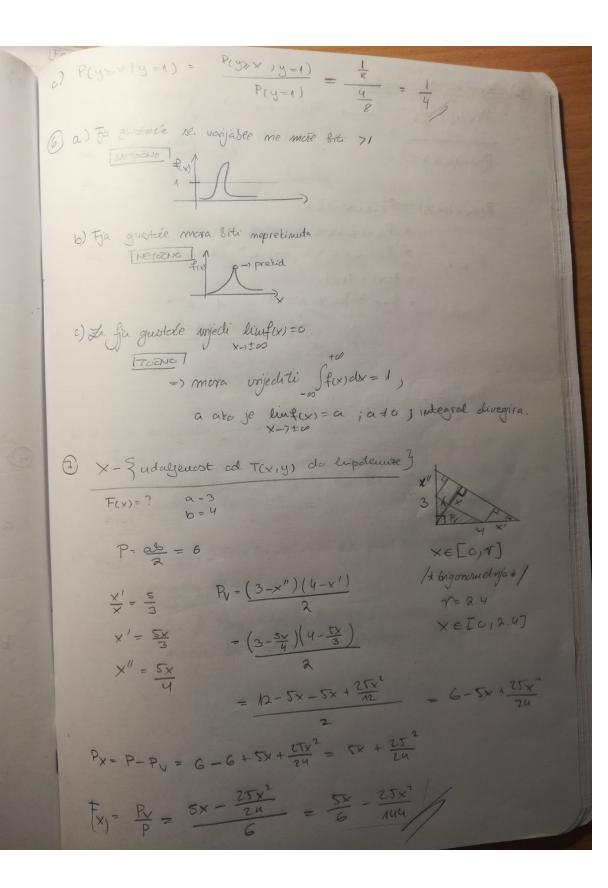
$$P(B) = \frac{P(AUB) - P(A)}{1 - P(A)} = \frac{1}{3} - \frac{1}{4} = \frac{1}{9}$$



$$\sum_{x} \frac{1}{1-x} \int_{-1}^{3} dx$$

$$\sum_{x} \frac{1}{1-x} \int_{-1}^{3} d$$





(3) Chopmenic also reaches
$$P(x) = \frac{1}{e^{x}} \qquad \qquad F(1) = 1 - e^{-h/2} = \frac{1}{e^{2}}$$

$$P(1) = \frac{1}{e^{x}} \qquad \qquad P(1) = 1 - e^{-h/2} = \frac{1}{e^{2}}$$

$$P(1) = \frac{1}{e^{x}} \qquad \qquad P(1) = 1 - e^{-h/2} = \frac{1}{e^{2}}$$

$$P(1) = \frac{1}{e^{x}} \qquad \qquad P(1) = 1 - e^{-h/2} = \frac{1}{e^{2}} \qquad \qquad P(1) = 1 - e^{-h/2}$$

$$= P(1) = \frac{1}{e^{2}} \qquad \qquad P(1) = 1 - e^{-h/2} = 1 - e^{-h/2}$$

$$= P(1) = \frac{1}{e^{2}} \qquad \qquad P(1) = \frac{1}{e^{2}} \qquad \qquad P(1) = 1 - e^{-h/2}$$

$$= P(1) = \frac{1}{e^{2}} \qquad \qquad P(1) = \frac{1}{e$$