

(11)

$$P(X=10) = \frac{40}{40+32+20+50} = \frac{20}{71}$$

części elementów w A₁

wszystkie elementy

$$P(X=32) = \frac{32}{142} = \frac{16}{71}$$

$$P(X=20) = \frac{20}{142} = \frac{10}{71}$$

$$P(X=50) = \frac{50}{142} = \frac{25}{71}$$

$$P(X=k) = \frac{1}{4} \quad (\text{ależ ubiegły do ujemne})$$

$$k \in \{40, 32, 20, 50\}$$

$$E X = \sum_{i=1}^4 x_i p_i = 10 \cdot \frac{20}{71} + 32 \cdot \frac{16}{71} + 20 \cdot \frac{10}{71} + 50 \cdot \frac{25}{71} = \\ = \frac{2762}{71} = 38 \frac{64}{71}$$

$$E Y = \sum_{i=1}^4 x_i p_i = \frac{1}{4} (40+32+20+50) = \frac{1}{4} \cdot 142 = \underline{\underline{35,5}}$$