

$$1) P[A] = 0.2 \quad P[B] = 0.5 \quad P[C] = 0.4$$

$$P[A|C] = 0.5 \quad P[C|B] = 0.4 \quad P[A \cap B | C] = 0.1$$

$$P[A \cup B \cup C] = P[A] + P[B] + P[C] - P[A \cap B] - P[A \cap C] - P[B \cap C] + P[A \cap B \cap C]$$

$$P[A \cap B] = P[A] \cdot P[B] = 0.1 \text{ (neodvisnost A in B)}$$

$$P[A \cap C] = P[A|C] \cdot P[C] = 0.2$$

$$P[B \cap C] = P[C|B] \cdot P[B] = 0.2$$

$$\underline{\underline{P[A \cup B \cup C]}} = 0.2 + 0.5 + 0.4 - 0.1 - 0.2 - 0.2 + 0.1 = \underline{\underline{0.7}}$$