

$$7.) \quad \text{zz: } P(B_i | A) = \frac{P(B_i) \cdot P(A | B_i)}{\sum_{j \in I} P(B_j) \cdot P(A | B_j)}$$

$$P(B_i | A) = \frac{P(B_i \cap A)}{P(A)} = \frac{P(B_i \cap A)}{\sum_{j \in I} P(B_j) \cdot P(A | B_j)} = \frac{P(B_i) \cdot \frac{P(A \cap B_i)}{P(B_i)}}{\sum_{j \in I} P(B_j) \cdot P(A | B_j)}$$

$$= \frac{P(B_i) \cdot P(A | B_i)}{\sum_{j \in I} P(B_j) \cdot P(A | B_j)}$$

