$$P(A \cap B) = \frac{P(A)}{P(A \cup B)} + \frac{P(B)}{P(A \cup B)} = \frac{1}{P(A \cup B)}$$

$$= \frac{P(A)}{P(A \cup B)} + \frac{P(B)}{P(A \cup B)} - \frac{P(A \cap B)}{P(A \cap B)} = \frac{P(A \cap B)}{P(A \cup B)}$$

$$= \frac{P(A \cap B)}{P(A \cap B)} = \frac{P(A \cap B)}{P(A \cup B)} + \frac{P(A \cap B)}{P(A \cup B)} = 0 \text{ or } P(A \cup B)$$

$$= \frac{P(A \cap B)}{P(A \cup B)} = \frac{P(A \cap B)}{P(A \cup B)} = 0 \text{ or } P(A \cup B) = 1$$

$$= \frac{P(A \cap B)}{P(A \cap B)} = \frac{P(A \cup B)}{P(A \cup B)} - \frac{P(A \cup B)}{P(A \cup B)} = 0$$

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