$$A = (A \cap B \cap A^{c}) \cup (A \cap B \cap C^{c})$$

$$= (A \cap B) \cap (A^{c} \cup C^{c})$$

$$= (A \cap B) \cap (A \cap C)^{c} = (A \cap B) - (A \cap C)$$

$$= (A \cap B) \cap (A^{c} \cup c^{c})$$

=
$$(AUB) U (AUC)_c = (AUB) - (AUC)$$

$$=\frac{3}{4}+\frac{10}{10}-\frac{11}{10}=\frac{10}{10}$$

(a)
$$P(BBB) = \frac{\pi}{8} \times \frac{4}{7} \times \frac{3}{6} = \frac{60}{336} = \frac{\pi}{28}$$

(P)
$$b(mmm) = \frac{8}{3} \times \frac{1}{2} \times \frac{1}{1} = \frac{RP}{1}$$

$$= \frac{8}{8} \times \frac{3}{4} \times \frac{5}{6} + \frac{3}{8} \times \frac{1}{4} \times \frac{5}{6} + \frac{3}{8} \times \frac{1}{4} \times \frac{5}{6}$$

$$=\frac{30+30+30}{336}=\frac{19}{56}$$

(0)
$$P(0) = \frac{100}{0.24} = \frac{1}{4}$$

(b)
$$P(o|\xi) = \frac{P(o \cap \xi)}{P(\xi)} = \frac{0.07}{0.35} = \frac{1}{5}$$

$$P(AIB) = \frac{P(A \cap B)}{P(B)} \ge P(A)$$

$$\Leftrightarrow$$
 $\frac{P(A \cap B)}{P(A)} \ge P(B)$

$$P(A|B) = P(B) \Leftrightarrow P(A \cap B) = P(B) P(B)$$

$$\Leftrightarrow$$
 P(A) P(A) = P(B) P(B)

$$\Leftrightarrow$$
 P(A)=P(B)

$$P(B|A) = P(A) \Leftrightarrow P(A)B) = P(A)P(B)$$

에서 A와B가 독립이 때만 방립

.. 귀짓

$$P(A \cap B^c) = P(A - B)$$

$$= P(A) - P(A \cap B)$$

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