(a)
$$P(F|_{H}) = \frac{80}{58+80}$$
 (d) $P(B^{c}|_{M}) = \frac{40+58}{150}$

(2)
$$P(T \ge 20 |_{T \ge 70}) = \frac{P(T \ge 80 |_{T \ge 70})}{P(T \ge 70)} = \frac{P(T \ge 80)}{P(T \ge 70)} = \frac{0.2}{9.6}$$

$$\frac{g(B|_{gF})}{g(gF)} = \frac{g(gF|_{B})g(B)}{g(gF)} = \frac{g(gF|_{B})g(B)}{g(gF)} + \frac{g(gF|_{B})g(B)}{g(gF)} + \frac{g(gF|_{B})g(B)}{g(gF)} + \frac{g(gF|_{B})g(B)}{g(gF)} = \frac{g(gF|_{B})g(B)}{g(gF)} + \frac{g(gF|_{B})g(gF)}{g(gF)} + \frac{g(gF|_{$$

(b)
$$P(R_B|_{R_B}) = P(R_B|_{R_B}) P(R_B) = \frac{\frac{3}{10} \times \frac{4}{9}}{P(R_B)} = \frac{\frac{3}{10} \times \frac{4}{9}}{\frac{4}{10} \times \frac{5}{9}}$$

(b)
$$P(R_{B}|R_{B}) = P(R_{B}|R_{B}) P(R_{B}) = \frac{10}{2} \times \frac{4}{9} + \frac{1}{10} \times \frac{5}{9}$$

(5) $P(A|R) = P(R_{B}) P(R) = P(R_{B}) P(R_{B})$

