

$$(d) \ P\{F \setminus C\} = P\{F\} - P\{F \cap C\} = 0.6 - 0.5 = \boxed{0.1}$$

$$(e) \ P\{C \mid F\} = \frac{P\{C \cap F\}}{P\{F\}} = \frac{0.5}{0.6} = \boxed{0.8333}$$

$$(f) \ P\{F \mid C\} = \frac{P\{C \cap F\}}{P\{C\}} = \frac{0.5}{0.7} = \boxed{0.7143}$$