

Exercise 13.1

① Given, $P(E) = 0.6$, $P(F) = 0.3$ and $P(E \cap F) = 0.2$

$$(i) P(E|F) = \frac{P(E \cap F)}{P(F)} = \frac{0.2}{0.3} = \frac{2}{3}$$

$$(ii) P(F|E) = \frac{P(F \cap E)}{P(E)} = \frac{P(E \cap F)}{P(E)} = \frac{0.2}{0.6} = \frac{1}{3}$$