

Assignment 6

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Abstract—This document contains the solution for Assignment 6 (NCERT Class 12 13.1 1)

13.1 1 [NCERT 12] : Given that E and F are events such that $\Pr(E) = 0.6$, $\Pr(F) = 0.3$ and $\Pr(E \cap F) = 0.2$, find $\Pr(E|F)$ and $\Pr(F|E)$

Solution:

$$\Pr(E|F) = \frac{\Pr(E \cap F)}{\Pr(F)} \quad (1)$$

$$\Rightarrow \boxed{\Pr(E|F) = \frac{2}{3}} \quad (2)$$

$$\Pr(F|E) = \frac{\Pr(E \cap F)}{\Pr(E)} \quad (3)$$

$$\Rightarrow \boxed{\Pr(F|E) = \frac{1}{3}} \quad (4)$$