Assignment 1

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1) If $\Pr(A) = \frac{1}{2}$, $\Pr(B) = 0$, then $\Pr(A|B)$ is

  a) 0

  b) $\frac{1}{2}$

  c) not defined

  d) 1

Solution: Given that the probability of event B occurring is zero i.e., event B does not occur. But the following expression

$$\Pr(A|B) \tag{0.0.1}$$

describes the probability of event A occurring given that event B occurred. Hence, we have

$$\Pr(A|B) \text{ not defined} \tag{0.0.2}$$