

AI1110: Assignment-1

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12.13.6.16 Question: Compute $P(A|B)$, if $P(B) = 0.5$ and $P(A \cap B) = 0.32$.

Answer: (0.64)

Solution:

We have for two events A and B the conditional probability $\Pr(A|B)$ is,

$$\Pr(A|B) = \frac{\Pr(AB)}{\Pr(B)} \quad (1)$$

$$\Pr(A|B) = \frac{0.32}{0.5} \quad (2)$$

$$\Pr(A|B) = 0.64 \quad (3)$$