

Assignment 6

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Abstract—This document contains the solution for Assignment 6 (CBSE Class 12 Chapter 13 Exercise 13.1 Question 2)

Question 2: Compute $P(A|B)$ if $P(B) = 0.5$ and $P(A \cap B) = 0.32$

Solution : Given ,

- 1) $P(B) = 0.5$
- 2) $P(A \cap B) = 0.32$

We know that,

$$P(A|B) = \frac{P(A \cap B)}{P(B)} \quad (1)$$

Substituting the values, we get,

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

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