

Question 12.13.3.56

EE22BTECH11051 - Sreekar Cheela

Question: If $P(A) = \frac{4}{5}$ and $P(AB) = \frac{7}{10}$, then $P(B|A)$ is equal to

Solution: The conditional probability of B given A is defined as :

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

Hence the required probability is:

$$P(B|A) = \frac{\left(\frac{7}{10}\right)}{\left(\frac{4}{5}\right)} = \left(\frac{7}{8}\right) \quad (2)$$