

Assignment Probability

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IITH Future Wireless Communication (FWC)

probability

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1 Problem

1. Q:12,13.2,1

1.1 Problem

Q2: If $P(A) = \frac{3}{5}$ and $P(B) = \frac{1}{5}$ find $P(A \cap B)$ if A and B are independent events ?

solution:

Given,

$$\begin{aligned}P(A) &= \frac{3}{5} \text{ and } P(B) = \frac{1}{5} \\P(AB) &= P(A) * P(B) \\P(AB) &= \frac{3}{5} * \frac{1}{5} \\P(AB) &= \frac{3}{25}\end{aligned}$$