Conditional Probability

TASH GUPTA Assoboos OR

Q-1 96 MA): 9, MB)= 3, MBnB)= 4 Calculate P(A/B)

 $R(A/B) = \frac{R(A\cap B)}{R(B)} = \frac{4/B}{3/B} = \frac{4}{7}$

A die is thrown 2 tras. Events A and B are or Jalous

A -> 3 on 2nd throw

B-> 1-20 Ever ruber on the first throw. Fred the brokedsity of a given that of lands befored.

 $A = \begin{bmatrix} (1,3) & (2,3) & (3,3) \\ (4,3) & (5,3) & (4,2) \end{bmatrix}$

 $\beta = \begin{cases} (2,1) & (2,2)(2,3)(2,9)(2,7) & (2,4) \\ (3,1) & (9,2)(9,3)(9,9)(9,7)(9,4) \\ (6,1) & (6,2)(6,3)(6,9)(6,5)(6,6) \end{cases}$ AND = [(2,3) (4,3), (6,3)]

$$P(A|B) = \frac{18}{32} \cdot \frac{1}{2} \cdot \frac{1$$

P(NB) = P(NB) =
$$\frac{2}{3}$$
 = $\frac{1}{3}$ | \frac

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9-7

And P(AIB) = J(B) = 0.5 P(AAB) = 0.32 $P(AAB) = \frac{P(AAB)}{P(B)} = \frac{0.32}{0.5}$

=0.69