1 Boyes Theorem Formula and Proof: A, B = events P(AIB) = P(B|A) P(A) P(B) P(B(A) = Conditional Probability of B given A (Likelihood) P (A) = A to prividodored roing P (B) = Proon probability of B P (AIB) = Posteriose probability brook: P (ANB) = P(A|B) P(B) P(B) P(A) P(A1B) 11-1-1 Shop bing Rain = 0.5 = 0.7 = 0,2 P (ANB) 0,2 * 0.5 0:10