









Substitute (3) E(3) in P(E:/A) = 7(E:NA) P(E:/A) = P(R:). P(A/E; Z P(EK).P(A/EK P(E:/A) = P(E:): P(A/E:) Z P(Ex). P(A/Ex

Probasility Cooth 3 and 4). P(A) = n(A) Total No of outcomes The P(A) = n(A) Total No of outcomes complementary event= P(A') = 1-P(A) (2) Addition theorem/stule:

P(AUB) = P(A) + P(B) - (M.E)

P(AUB = P(A) + P(B) #-P(AOB) - (Not M.E) (3) (2) rultiplication theorem independent event = P(ANB) = P(A) x P(B) dependent event = P(ANB) - P(A) . P(B/A) P(ANB) = P(B), P(A/B) (3) impossible event = P(\$) = 0 (B) conditional Prob = P(A/13) = P(A013)
P(3) P(B/A) = P(A/B) Total Prob theorem. P(A) = P(A/B,) * P(B,) + P(A/B2) * P(B2) => P(A) = P(A/Bn) * P(Bn) (8) Bayes Theosipy P(A 113) = P(B/A).P(A)