HW#27 = 2 Product: 1-TI [1-P(An)] = 1-(1-P(A1))(1-P(A2))=1-(1-P(A1)-P(A2)+P(A1)P(A2))

20 1 small idente $= P(A_1) + P(A_2) = P(A_1)P(A_2) = P(A_1) + P(A_2)$ som: ZP(An) = P(A,)+P(Az) product & sin for n=2 are the same product : 1 - T[1-P(An)] = 1-(1-P(A1))(1-P(A2))(1-P(A3)) = 1-(1-P(A1)-P(A2)+P(A2)P(A2)(1-P(A3)) = 1-(1-P(A3)+P(A))P(A3)+P(A2)P(A3)-P(A2)-P(A3) = P(A1) + P(A2) + P(A3) sum: = P(A2) + P(A2) + P(A3) product & sune for no are they same I ax not writing a one-page surracy - they use Boolean algebra.