## Shoot - Out Problem Compare Calculations to Simulation

ABC ABC ABC P(c) = 2/3.1/2.2/3 = (2/9 = 22.27) P(B,) = 1/3 (1/2 + 1/3 1/2 + 1/9 1/2 + ····) = 1/6 (1+1/3+1/9+ .... 1/2 AB 1/3 = 1/4.3/2 = 1/4 P(B2) = 2/3.1/2.2/3. (1/2+1/31/2+1/2) = 2/9(1/2 + 1/3 1/2 + 1/9 1/2 + · · - ) = 1/9(1+ 1/3 + 1/9 + . - - - ) AB 1/2 B = 1/9 3/2 = 1/6 P(B) = P(B,) + P(B2) = 1/4+1/6= (5/12=41.67 P(A) = 1-P(c)-P(B)=1-2/9-5/12 = 1-23/36 = (3/36 = 36.19)