

A) We need to assume the observer instructed to tell us wheter attens tone die came up as 6 and no more intornation. This assmiption has to be made to analysis to be valid. we say that a represens the xist wie and be the second of e (a, 6) there are 36 eghally 1. Lay Outromos. Lex 7 be the event hat at least one de Equals 6 and set 5 se the event they the Sum of the dice equals 7. want P(5/7) = 9(+ n 5) 9(+), (+ n 5) on 100mes n-c (,6) (6,1) 50 p(TAS) = 36 There are 5 = 25 Ontromes 1'4 T 50 8(7) 36-25 Hence, the answer 15 (2/11) = b) This is the same as in provious exercise Same 38 to the qualy 5.5. Hence, the 945mm be 2 11 Would

7.3.12 a) Lex Ro be the event that o was veceived Let So be the event that o was sent the event that I was sont Let 5 6e Note: 75, 75 we are told trast: P(5,) = 13 p(50) - 3 P(Ro150) = 0,9 P(R015,) = 6, 2 P(Ro) = P(Ro(So) + P(Ro(S,)) P(S,) +0,9.3 +0,2. b) Usi's Bryes' theorem.

P(So/Ro) = P(RolSo) · P(So)

P(RolSo) · P(So) + P(RolSo) · P(So) 0,9 3 0,9.2 = 0,9