

Example 2: A urb contains 2 white and I red balls, another urn contains I white and I red ball: A ball is cluser at rambin from the first in and placed unseen in the second um. Decons um is white? (6) What is the consitional protes that the ball places Unseen in the secon was white given that a white ball is selected from the second um? @ Let W, = white ball from Ist Um Ri = Red V Who = White v v sin um R = Red V V V P(W2) = P(W1) - P(W2/W1) + P(R1) - P(W2/R1) where P(m) = 2/6, P(R) = 4/6
P(W2/W1) = 2/3, P(W3/R) = 1/3
= (2/6 × 2/3) + (4/6 × 1/2) = 4/9 (5) P(W1 W2) = P(W, nW3) = P(W2/W) - P(W1) $= \frac{P(w_0)}{2/2} \times \frac{P(w_0)}{2/2} = \frac{2}{2/3} \times \frac{2}{3/3} = \frac{2}$ Write on both side of the paper