Orden in formation, soll 1 = (3) 3000 1000 (3) 2.0-1)(11(-4) 0.05 10.75 00 1+1 (still still stil 025 . (.0/0.0) + 81.0 %; (.0) Confluids, ps. po. 5. 5 (8)? Form the above Tree diagram mat 0 is Sent Probabaltis: 0.7 2 is Sort with Probability: 0.3 Due to noise ois chartolnites probles 0.05 Due to noise 2 is charge to a with product = 0.25 A: The event That I is Received B: mot event 1 10 Sent I med find P(B/A) = ! P(B/A) - P(A/B) P(B) $P(B) = 0.29 \times 0.3$ = 0.4(A) P(AIB) = p(2 in Soll) x p(1 das not charge

P(1 does not change) = [1-p(150 comes)]x [1-p(2 beloned)] $= \frac{(1-0.7)(1-0.4)}{(1-0.4)}$ = 0.3 × 26 P(A) = P() set and it))+p(o is set and it thoughtor) P(A) = 0.39
P(A) = 0.39 P(3/A)= P(A/B)P(B) P(A) Erolistingsdoorable bit fill (8:0: 1000, 39 100 of good) of 1 orion of 900 = 0.18 (30) 54 21 1 bot 600 54 44 The this of the sublishing of (A) 19 but buy 1 (EDT (MA)9 (MA)9 20000 100000 1) 1 x (100 01) 1 = (11)

(2) Criven Enformalios! (1) Tudges & Choose bandon of soven Jubyes. 2) 4 Judges Farlour A (3) 3 Judges favour 13. Rind P(A) A: A will win too bounts contest. top Tudys: 7 Choose 3 N&= Ni di (n-2)1 3!(7-3)! = 7×6×5×4× 3×2×1 (3x2x1) (4x3x2x1 & Fareous of AICE 3 Farrous of B) P(B) = 35 The Probabiles That A vill be Locleved as = 0.11-10.08 = 0.57