Mutually Enclusive: ANB= \$; P(AUB)= P(A)+P(B) $P\left(\frac{A}{B}\right) = P\left(\frac{A \cap B}{P(B)}\right)$ Collectively Enhaustice events: AUB = sample space. Independent Exerts = P(ANB) = P(A). P(B) Random V(X) Poisson Diambetis n-300 p-0 but hp is finite. Discrebe continuous. PMC = R(n)= > ne · bDt; f(n) 30 BME: 130(x) 30 where >=mean = np Mean = Vorione J = (4) = T 2 P(n) = 1 $\Delta_z = E(x_j) - (E(x))_j$ -> Binomial - Uniform λ²+> - >² = > - Poisson - Nomal PGF = ex(z-1) -> Exponential Prof/PDF are some, depurds on context. Normal Distribution Coversian Distribution x Interval I2 | I3 Mean = Median = Made. Cumulative density Func. f(n)= 1 == (x-12)2 Cumulative DF is some but can't add f (x) a a+b a+b+c o² → voriane directly, so we integrate 4 - mean. Poetix sums. in that range. Area : (-1 < Z < 1) : 0.68 Mean = re (-26262) : 0.95 = (= p(n) = E(n) E(n) = 2 2 P(n) (-3 < 2 < 3) . 0 - 99 Varione Variona= E(nt) - (E(x)) - calculate (-aczca) 1 Richargular / Uniform dishibition sum of 59. - 59. of sum. [E(x2) = J22 P(N) Gamma function | a | 20-1 cardr = [n We know Jfm=1 = Area Mean of general function'. M SB E (b(n)) = \(\int \p(n) \) or | d(n)f(n) dr [the Variance = (b-a) Binomial Distribution: n > finite Monardy Representation -> 4 - 40° P(x) = ncn p2 qn-1 [p+2=19] p=2 אור ביור about bwe = [b+4] = 1 = T Origin Mean Any value mean = np 1 = E(x-x) 4 = E(x-A) 1. $M_T = E(x-0)_{\lambda}$ voriana = npq. TO = 07 T = T MGE (Moment generating furction) = E(ext) W = 0 11 = 2 = Mean) E(ext) = (pet +q) 12 = 12 - (41) Valino 712 = E(x2) 112 = E (x3) Character stil Fun : E(eint) € → it 43-34244(24) = 44 - 44 w PGF (Probabily generally Further) 2 Sug +642 41 -3414 syllaber -> E(z*) = (zp+q)" BERING

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