N 10 a) n=1; 2 Neumoran - Tupcon 1. Po = 1-1 e > c e > 3 B G: X & A No Ne i mucany - Alynumy P (x = A | No) = d A = 2 6 . x = 2 d, = 1 - e - (1-ed) 8 h = 2 h = 2 $d = 2 - x_1 - x_2$ 1 - 3 : l = 2 = 2 = 1.1≥ C e ~ x1 - x2 = B G: X1 + X2 ≤ A d1 = d A A-x W = P(x + x = A | N1) = Sax1 Se-1 e -x1-x2 = BRAUBERG

(2) - (e-1)2 (1-e - J2 x 2) d2 = 1 - W = 1 + e (e-1)2 (1-e-520 - 520 e) P (1 > c 1 40) = x $\ln \ell = \frac{8}{2} \ln \frac{p_1(x_i)}{p_2(x_i)} \Rightarrow 1577$ In L Eni-ny [ni]

In D[ni]

NN(0,1) Marigue M, D: 40 . M [n:] = M [ln e-1 e 1] = = M [ln e - 1 - xi] = ln e - 1 - 2 DINIJ = DIEN EN EXIJ = 2 D[me-1 - xi] = D[xi] = 1/2 MT: P(Lh L > ln C (Uo) = p(\sum_{\text{sn;-n.Nin}} \) > hc - n r t n 3 = x m C - n (m e-1 - 1/2) 2 M1-d V 12 $m \in \mathbb{Z}$ m = 1 m(3: ln e = enc BRAUBERG

 $\frac{n}{2} \times i \geq \frac{n}{2} + 11 - 2 \cdot \frac{n}{12}$ $C: \times \leq A$, raye $A = \frac{1}{2} - \frac{U_1 - V_1}{V_1 - V_2} - \frac{1}{2}$ $V_1 - V_2 - \frac{1}{2}$ $V_2 - V_3 - \frac{1}{2}$ $V_3 - V_4 - \frac{1}{2}$ 1917: x - M = 5W N (0,1) 11 : M = = Sx e = e dx = e - x = x = 1 + Se x dx = e 2 e-1 [-e + 1-2] = e-2 $M = \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times$ D = J = J - M2 = J = (2-3 2 +1)

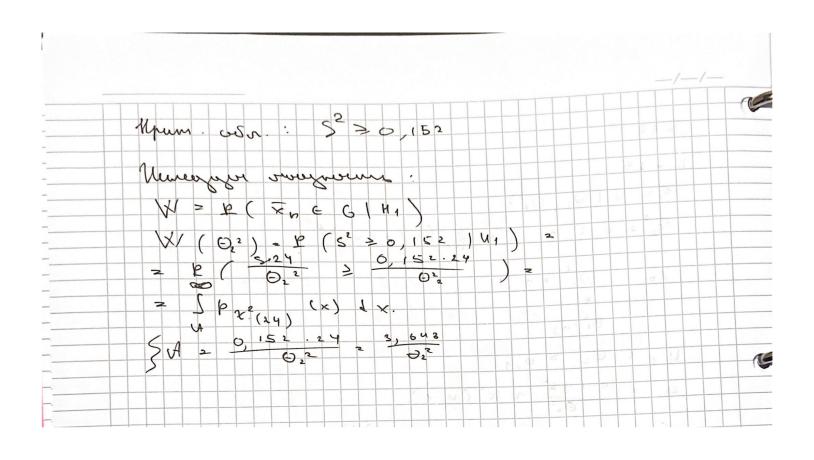
W = P (x = A | y,) = P (x-m=3 5n7 = 5D=75n7)=

= J = X2 d x L2 = 1 - W 1) 6: xmin < C P(xm: , < (| ho) = x No: Fo(x) = (0, x < 0) | (x) x | (x) Fmin (x) = (1-Fo(x)) + P(xmin = (No) P (x win < (1 40) = 1 - Frin (4) + x

W = P (xmin < c | u,) $W_1 = F_1(x) = \sum_{e=1}^{\infty} e^{-t} dt = e^{-1} (1 - e^{-x})$ W = 1 - Fmo (c) = 1 - (1 - F, (c)) n = = 1 - (1 - e-1 + e-1 e -) = 1 · (-1 + e-1 e) = = 1 + (e-1) h (1-e1-c)h d, = d, d2 = 1 - W NII $P_{0}(x_{1}) P_{1}(x_{2}) \geq C$ 4"-6 P1 - 4 S(x-1) + 4 S(x-2) + 4 S(x-3) + 4 S(x-4) - 4 Po = 4 8 (x-1) + 4 8 (x-2) + 6 8 (x-3) + 3 8 (x-4) 2 - 6 6 us - 24 P (2 > C (40) 20,2 (\$0,2, w. u. gump. bum.) 1/26 < 0,2 1 + 1 . 4 6 6,2 220,194 Darone >0, 2 = > 6 up : 10 magenne (1,3),(2,3), d, 20, 184 (2,2), (5,1), (3,3) 2 = 1 - W = 1 - P(C = C | h1) = 16 = 0, 6895 BRAUBERG

N12 n = 15 5~ N (O, O,) Res = 0, 1 = 1 0 (x:-<x>) No: 02 20,1 02 (0) U1: 02 > 0,1 622 \(\(\text{N-1} \) \(\text{S}^2 \) \(\text{V}^2 \) \(\text{V}^2 \) \(\text{V}^2 \) 6 mpcm $^{\circ}$ $\bigcirc \ge C$; $\square = 0$ $\bigcirc (n-1)$ \bigcirc 1) Panenne o run. U o nyumen non nonouve: >> 100 ombeproemer (mo seuro y un en va bra vo, 1) D) Onnemur " " veo. upun. oonuu U-71: Gunum: 4> C; AN 1/2 (24) d, = + (D ≥ C | 40) 2 d = 0,05

(Mb euro S Px(24) (x) d x ≥ 0,05 C 2 36, 4 24.5 6 upun . BRAUBERG



N 13 G ~ N (a, 62) , 62 3 2 ; N = 3 n v (6,625); 8221; m=2 x = { -1,11; -6,10; 2,423; x=-1,597 y = - 12,29; -2,315, y = -2,6 No . a 2 6; U1: a 76, a >6, a < 6) x = 0,05 M.n. 6x 76y Bomons. mam. munguer. Zuasn. = -1,587-(-1,6) 1,003 20,829 U1: 076 (2 mm) 2 2 20,475 -> Zupum = 1,96 N,: a > 6, a < 6: P(2 mm.) 2 2 20, 45 2) Zwp. 21,05 11: 076: -1,36 < 0, 929 < 1,86 => new verue outer No My : 9 > 6:0,052 g < 1,65 => nem ven amegra. No 1/1: a < b : -1,65 < 0,82 y = > new cer. ones. No BRAUBERG