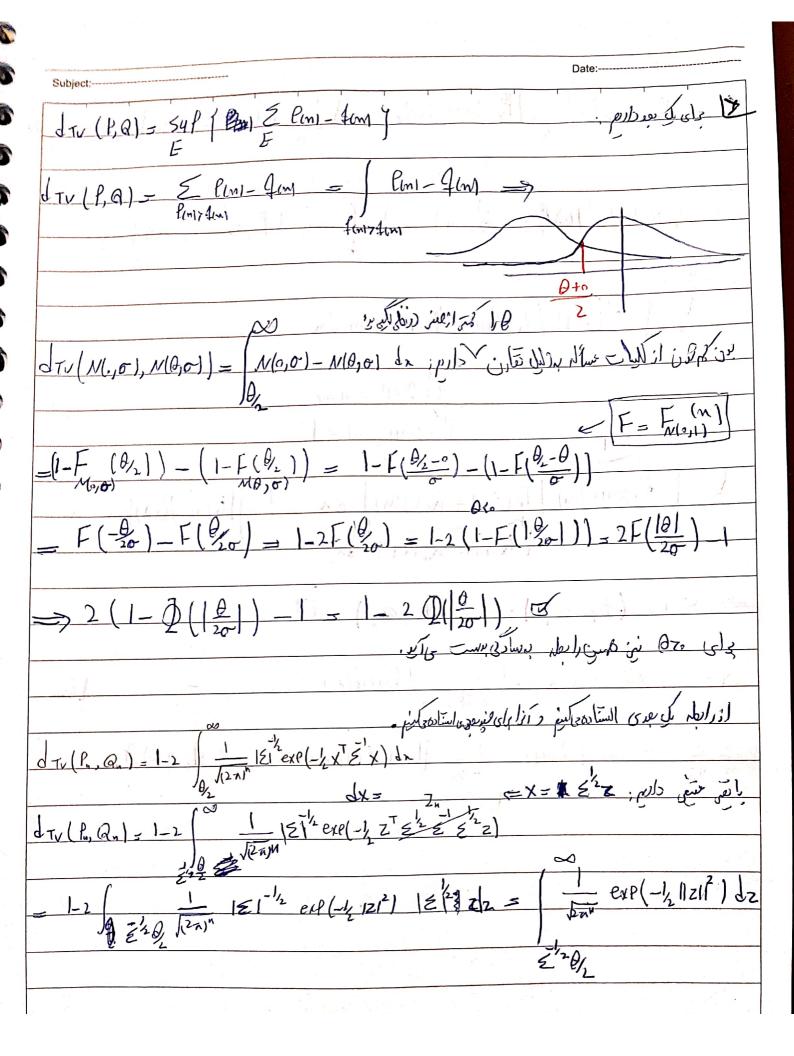


dTv (Py, Qy)=15 | Py(91m) - Qy(91m) + 25 | Px(x) - Qx(m) J'(g(n)) / Px(fin) - 90 (n) g'(n) dn 9 (9(n)19(n) | Px (9(n) - Qx (9(n)) dn = 1 | Px(n) - Dx(x) d 15 5 | Po(x) - P(x) | Q(x4) = 15 | Po(x) - P(x) | = dTV ( Poff, )



اذا تاکر جاتوانیم مل توزیع کوسی ۱۸ بعری مراه را مراه را مراه کوسی به باری کوری به باری کرد. از آنا
$d\tau_{\nu}(l_{n}, a_{n}) = 1 - 2\Phi\left(\frac{1}{2}\left(\frac{z^{-1}}{2}\right)\right) \qquad \qquad = -\frac{1}{2}\left(\frac{1}{2}\left(\frac{z^{-1}}{2}\right)\right)$
الله ای الله الله الله الله الله الله ال
عل علا كاهي بر مل به به بالعام داد، مناءلي از نوسي ويناً ب رياهي أن مرت مناكر موام.
3 stackneuflw ; ks & - [u] [ii] (ii) (ii) (iii)
iderec: 2(μχλη νχν) ≤ d(μχλ) ≥ d(λχλγ) = 3 € 1 Θ, λλλ β. λχνλ β. λχν
dTv(M,V) < P(X #Y)
MAI - V(E) = P[BEE, YEE] + P[XEE, YEE] & [(PA(XEE) YEE) + P(BEE, YEE)  P[XEE, YEE] P[YEE, XEE] < P[NEE, YEE]  drany E
dTV(M,V) = Suff (ME) V(E) (inf P[X=Y] (I)  E [XEE, y&E]
$\frac{1}{10000000000000000000000000000000000$
$0 \rightarrow P(X_1 = Y_1) \left(1 - P(X_2 = Y_1) < (1 - P(X_1 = Y_2)) = 7 - P(X_1 = Y_1) P(X_2 = Y_1) < 1 - (P(X_1 = Y_1)) + P(X_2 = Y_2) + P(X_2 = Y_2)$
$= \frac{1 - P(x_1 = Y_1) P(x_1 = Y_2)}{4} = \frac{1 - P(x_1 = Y_1) + 1 - P(x_1 = Y_2)}{4} = \frac{1 - P(x_1 = Y_1) + P(x_2 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) + P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 = Y_1) P(x_1 \neq Y_2)}{4} = \frac{1 - P(x_1 \neq Y_1) P(x_1 \neq Y_2)}{4} = 1 - P(x_1 \neq Y_1)$
Z dru (M, V) + dru (h, V) = sels - l feull Il je briet Boto
2npject;

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there exist oftimal coulding => dTv(M, V) = P(X + V)
there exist altimal authing = 2 dTv (4, V) = P(X = V)
1 Jul Jul 2 5 F
P
Proof for total Variation for Product istylph solving = Cul
neasure using Coulling => Seach over flow
= moth fund