Variation 1 au, [NI] IL: W= X1 X2 -- Xn, X = 0,1, L=1, 4 E(w) = in di Houme {xi3, pampegarenne Repremarent 280 Pernesue: g(w) - d1 + d2 + - d4 = 2 < = xx2 2 + xx2 2 2 + ... + Vn-1-2 + xn N3 Миониство значений: 0, 1 2 , 2°-1 Ha Распр. вер.: Fg (Xi) = In (ваго да вырисимов, конедое учестве шотно холучить польно супии способом) depa 5/2 Per 43 = (\$(tx) \$(tx)) = (tx)) - ms(tx, tx) = 1, h Pr(Uz Un, ts tu) = < exp (= tu G (tu))>= -/ = I femplie Un Xu) fulxs, Xu, ts, twody ox Видареренунрование сипинами по подписану 8 90() - J. Sixu, exp (i = 11, xx) folks, xx

25 Pall ours - Sisker xee explications. In land our all of the state o 8/2 eaux 1 38 (1) | u=0, u=0 = [[xx, xus extil , (x, xut, tu) dx, dx = = < \((tu) - \((tus)) = ms (tu tus) 183 f(x,t) = = = exp(-(x-a/t)) /2 = a(t))

Hacitum qe(y,t); m, = M[5(t)] u µn(t) umanoyye rob Exercise Superior republicant aly control beneficial for the projects of the projects of the formal in the fitter than the first the formal is the first the formal in the first the formal is the first the formal in the first the first the formal is the first the first the first the formal in the first the elecc -44=c 1) Kapanmepurmunerna gynnyme ixy (x,t)dx-Ks= $=\int e^{ixy} \frac{1}{\sqrt{2\pi}6^2} \exp(-\frac{(x-a)^2}{26a^2}) dx = \int e^{izy} e^{iay} \frac{1}{\sqrt{2\pi}6^2}$ · em (-22) d== einy fe-(=22-17) d==

= eing. ēge 2/2 / e-(\frac{2}{\sqrt{2}} - cy\frac{6}{2}) dzz = eias - e y 5 /2 | \\ \sighta = u du - e a de y \\ \\ \sighta = \sighta = \sighta \\ \sighta = \sighta = \sighta \\ \sighta = \sighta \\ \sighta = \sighta = \sighta \\ \sighta = \sighta \\ \sighta = \sighta \\ \sighta = \sighta = \sighta \\ \sighta = \sighta = \sighta \\ \sighta = =exp(iay - y====) 3)1= 2) m1= < \(\xi(t)\) = \(\frac{1}{2}\) \(\frac{ g(+ Z // un(t)=<(\xi(t)-m1)">=<(\xi(t)-a)">= = ((9(t)) h) a = 中型(y,t)=<ei切>=<ei切(を-a))=<eiが表意がる>= = e-ingus (y,t) = e-y==1/2 42 Jun(t) = 1 d" 42 (y,t) / y=0 N4 rigas $e^{-y^2 6^{-y} 2} = \frac{80}{6} \frac{5^2 k(-)^2}{2^2 k} \frac{4y^2 k}{2^2 k}$ $\frac{1^4 \left(e^{-y^2 - y^2}\right)^2}{2^2 k} = \frac{80}{8} \frac{(-1)^2 6^2 k}{(2k)^2} \frac{2^2 k^{-1}}{2^2 k}$ $\frac{1^4 \left(e^{-y^2 - y^2}\right)^2}{2^2 k} = \frac{80}{8} \frac{(-1)^2 6^2 k}{(2k)^2} \frac{2^2 k^{-1}}{2^2 k}$ $\frac{1^4 \left(e^{-y^2 - y^2}\right)^2}{2^2 k} = \frac{80}{8} \frac{(-1)^2 6^2 k}{(2k)^2} \frac{2^2 k}{(2k-1)!} \frac{1}{y^2 k^{-1}}$ 200 By = = (i c) (k) yek-h , 1ge p = [] (output out of the land

dr (e-y 6/2) | y=0 = (10) (2p)! y - 1 | y=0 = 100 h news = 14= / (t) = / (m)! (v2)", n-remn Lo, h- Heren = 17 exp(ia(tx)y- y202(tx))= exp(iy= a(tx)aches gynamics became success

Q = & a(tu), 0 = & 6 (tx)

(x- & a(tu)) 2 fy €x, ts, th) = 1 = (₹x) (x- ξ a(th))2)

2 €x (tx) = √2it = 6 (tx) (x = 5 6 (tx)))2) NH Tronspens: gus herpetelenow ayrowhow requeses c ngabucunoum representation \{ (t), t \go kabagynay gynnynes B\{ (t), ta) cluspane c guenepures D\{ (t) consponentium B\{ (t, ta) = D\{ (t)min}, time = min (t) Levenue 1) \$ (t) +>0; \ (ti) = \ i, to>to Torge By (+4, to) = < (\xi(\xi(\xi_1)) - <\xi(\xi(\xi_1))) (\xi(\xi_2) - <\xi(\xi_1))) = = < (8, - <9)((5, - 8,) - <5, - 5)) > + < 18. - <5)

= 0 =<(\$,-(\$,))>=D=(4)=)B=(4,t2)=b+/4 2) a) Busepolencies CP, \$(t), t ≥0, m(t)=0
B(ts, ts) = nun (ts, ts), \$(0) =0 · é · + K り=を(も)-を(ら)、くり>=0 Dy = <(\(\frac{1}{2}(t) - \frac{1}{2}(s))^2 > = t + S - 2 min (t,s) = (t-3) [NS] fr = (y, t, s) = 1 exp(-y') fr (gr yn, tr to) = fr, (y) fon (yn) \$(\frac{1}{2}) = \eta_1, \frac{1}{2}(\frac{1}{2}) = \eta_1 + \eta_2
\$\frac{1}{2}(\frac{1}{2}) = \eta_1 + \eta_1 + \eta_1
\$\frac{1}{2}(\frac{1}{2}, \frac{1}{2}) = \frac{1}{2} + \eta_1 + \eta_1
\$\frac{1}{2}(\frac{1}{2}, \frac{1}{2}) = \frac{1}{2} + \frac{1 1) 9 Macin go K 2 k Typiconolemnin agrantion paged

P(\(\frac{2}{2}(t)=k\) = (\lambda t) \(\tilde{e} \tat, \lambda > 0, k=0,4. PIE Kai P(E(s)-E(t)=R)= 2(s-t)=2(s-t), s>t Cuenalus p. = 2 Dt, ps, =0 Par PE 号(も)= 三からた Un(マ)=(1- 生文)+マン キャロ=(+入せ (3-5) < 3 < 4 Us (2)=[U,(8)]=(1+x+(2-0))=ext(2-0) to P(8(+1)-K1, 5(4)-K1)=P(8(4)-K1, 84)-

1/2 = (2 t) (2 (t2-t1)) = (2 (ty-tu) x - 10) K! (Ko-Kn)! (Kn-Kn-1)! · e- 2t1 . e- 2(t2-t) . . - e-2(t-t-t-) = 2 km = 2t · tiki(to-ti) 22-K. (tu-tu-1) Ku-Ku-1 K1! [K2-K1)! ... [Kn-Kn-1)! [NS] E zo sell ognoù wen ju main Ex= 1 a long roung your t - queneralement haums 1) Cregnis racmous. Blagen areg CB 9/x - Turco "Comonia nys ceonobensio remons & Ja K- mont moun Jx = 1/4 Programme paintegent hum Typecons

Profre (Mr = yr) = (NT) Jr - NT yr - yerde

Lyn = NT; horge < yr > = N

Kairgen peurpegeneme = xr

Pan (3x = 0) = Prx (1x = 0) = E P-82 (\$4=1) = 1-P+x (\$4=0) = 1-EXT くそいとのをかけんは一をかり=1-をかて Tyn Samuer N: 42 2 (4) = N/1- 2) <00 > = 2 = - 1 - la (1-4) - 3 4 4 - 55. 2 Honrore oyerun epeghen racmours Hepakenembro Vernuceba p / New - < Pep / = {) = = = D /4 = D(NT) = 1 DV Dy = D(E Zz) = DEL DEX = <(5,-150)> = (52)-2(50)+1303 = < 2x>-< 5x>=1-e-1+2e-1-e-27 = e-27 - e 22 Torgs DY=Ne-27 (1- E27) DV4=e-27 (1-e-27) P(120-<24)>= E) = e-2 (1-e-22) H. [NB] 9(t) = C(-1) E(t) No 2 32 MA E(t), t≥0, E(0)=0- hyaccon ell D E(st) = E(t+T) - E(t)≥0 P(BE(t)=4)=(2T)e-27, 1=0, 1,2, 1) Moin omugaine h E(t) = E(o) + A E(t) = DE(t) => p(E(t)=n)= 10 +0 = (2t) =-27 oборнани w,- E(t)-rem +0 Wa - E(t) - recremence

p(w) = = (2x) = = chatear. - 1(1+e-22+) (2x) P(Wa) = 1-P(W)= = (11-e-22t) \(\gamma(t) \) = cp(\omega) + (-c)p(\omega) = c(p(\omega) - p(\omega))
 \(\cdot \) 2. Koppensynonnas gypnyne 2 (ts,ts) = < n (+4) n/(ts) > = < C(-1) 5/(ts). · C(-1) { [ts) > = < C(-1) { (t1) + { (t2) } = = < C2(-1)(2(t2)-2(t1))-(-1)22(t2)) - 2 (24-1) 0 8 (tip) >, 71,2 = ta-te Anarono & (tyta) = c2 @ 22 Tiz co 22(tota) 17 5(t)= a0 + a, cos wet + as she we to < E(t)> = < ao) + < a, wo wits + < a shwets= = (ao) = const 200) = C1, <01) = <92>=0 DE = < (E(t) - E(t) => z ((aota, coscoet + + as & h Wet - < a >) > = < a = + a = 0, cor to, t + + 0. az th wet - a. < as> + a.a. coswet+ +07 coswet + a1 a2 phawet- <a> a1 cosweta +0-92 8hwet + 9,00 sharet + 92 showet Las auch wet- and an - (00) a cont- (00) a th wet + 2005 > - const

<0,> = (a) > = 62 (00) = 500 1 < a001 > = < a000 > = < a, a0 = 0 RE (ts, ts) = 28 (tz-ti). 100 22 (ts, t2) = < 3 (ts) 3 (ts) = < (9-+ a, convert+ + as 8h wet1) - (ao+ a, cos wets + as th wets) >= < 00 + 900, cos wets + 900, 6hwets + 000, cos wet, + + a i les wet, cos we to + a, as coswety - sh wets + + a. az sh wet, + a, as the wet, con with + a sh wot, -- She Leve to > = 50 + 6 cos wet | T=t2-t1 Bz (ta,ta) = <(\$(\$(t1)-\$(4))(\$(t5)-\$(4))>= +6 lim = 1 (00+0, cos wet + a sh wet) dt = 2) 1 In 1 St (E (ac cos we t + bu siht wet)) dt= = lin 1 / Ei an + bx dt + lin = 1 / E loss coxk + = 8h 2 wx t(.)+ = cos(wx - (wm)+(...)+ +== cos (wx+wn)+(..)+== sh (wn-wn)+(-)-3) + 2 6h (wx + lon) + (.) dt = 2 and + bi +0= 90 - 1 = (のはしい) サイミン

(2 > = 5 to agent no sprogra $\sqrt{871}B(\tau) = 6^{-2} \exp(-\alpha 1\tau t)$, $\alpha > 0$ $p(\omega) = \frac{1}{2\pi} - \sqrt{8(\tau)} e^{-i\omega \tau} / \tau = \frac{1}{2\pi} - 6^{-2} = \frac{1}{2\pi}$ + 1 162 e(-iw-a) 2/7-62 e(-iw-a) t/0 + 250 e(-iw-a) 2/7-62 e(-iw-a) (t=- $= \frac{6^{2}}{2\pi} \frac{2d^{2}}{\alpha^{2} + \omega^{2}} = \frac{\sqrt{6^{2}}}{\sqrt{(\alpha^{2} + \omega^{2})}}$ 2) $B(\tau) = 5^{2}$, a>0 $g(w) = \frac{1}{1+a^{2}\tau^{2}}$, a>0-62 / ibhwt d7=252 / cas(wt) 12= 2tt-00 /+0272 2# 2# 6 1+0222 = 62 t e-1/10/ = 22 exp(-/w/) (-)-3) B(t)==2(1+ \alpha | t | exp[-\alpha [2]), as.

= 9(10)=1 + | B(z)e^{-iwt} | t = 1 - 16 = 15 · ē iwt dt + 1 / o ed/of e ald int/t=

= I1+I2 Res II = 252; I2 = -25 / E = (10-0) 7/7 47 + +6 · Ja + \alpha = \frac{1}{2\pi} = \frac{1}{2\p -do 211(iw-a) _0 (iw-a) Td - 052 felian) 7/2--052 T & (iw+a) 7/700 NE2 T & (iw+a) 7/70 AT 2 DIE $= \frac{25^{2}}{2\pi(i\nu-2)} \frac{(1-0)-\frac{25^{2}}{2\pi(i\nu+2)}(0-1)}{2\pi(i\nu+2)^{2}} = \frac{25^{2}}{2\pi} \frac{2(2-i\nu^{2})}{(2^{2}+i\nu^{2})^{2}} =$ · Co = 6 d(x = w2) 850 $g(\omega) = \frac{\sigma^2 \alpha}{\pi (\alpha^2 + \omega^2)} + \frac{\sigma^2 (\alpha^2 + \omega^2)}{\pi (\alpha^2 + \omega^2)} = \frac{g^2 \alpha}{\pi} \cdot \frac{\lambda^2 + \omega^2 + \alpha^2 - \omega^2}{\pi (\alpha^2 + \omega^2)^2}$ = 1 + 60 - oh = 20352 Tr(d2w2)2 = h, [Ng] Z(t) = = F(t-to)[aploo(we(t-to))+ +60 8h (we (+-to)) ; we zeconst F(0) = { B exp(-B0), 0 ≥0, 8>0 (0, 0<0 as 80 - cman segubremune my colors

(a)>=<60>=0, <a2>=<60>=6 lem] 0=t-to, mange \$(0)=F(0)[as conweb. + both we 0] Tonga <\{(t)\) = h, \[] far \$600 lbs. . I F(0) [aquowe 0 + bo where 6) do= =n, f far far dar f for dby f F(b) cos weddd+ + 1 60 fe do [far dar [F(0) bin we 0 do] =0 D[(t)] = n; [facto dad by] f'(0) do = n, 62 [P2(0). · col (w. 0) do + 4 = 2/F (0) th2 (w. 0) do = =1162 F 2(+) AD = 1162 B/2 Balt)=1, I far for day dby (1 (0) \$ (0 2) db = = 1 Il farterdard be ff(0)F(0+ t) far coswed coswe (4.t)+ = 8, 6 b coswe Teb? for the coswe (# t) + and 2 coswe 0.

= h, 6 b coswe Teb? for p coswe t ept free 2 pt 10, T ≥ 0

= h, 6 b coswe Teb? for p exp the per 2 fe 2 pt 10, T ≥ 0

= n, 6 b coswe Teb? for p exp 11 pt 2 pt 12 pt 9(4) = 45 p Jaswor & ptz) = iwz/z = - c / con we town we extel for -inf confer of more -

- EBITI de el le Be come temment de le les met. · coswit de] = è (I, +Is)

Uplecomo: se et cospet de e à - cospet + BBIBE je

Torgo I, = jet (cos/w-w) + cos(w+w)) de = (w) = = = = = = (-Bcos(we-w) & +(we-w) + h(we-w)) (-+ 2) 21 +e-Bt (-BCO (We+W) T+(We+W). 8h (We+W) T/0 /2 9-10 = 1 (B + 1 wc-w) + 1 + 1 (we-w) Anoun russo I = I1 B./ T.o. g(w) = C { B+100-W" + B+1100+10)2 }= = 0 21,62 B2(B2+w2+w2) 20 (B2+(w2-W)2)(B2+(w2+w)2) 2.] h, 62 = 1, W, 2/00, BZ/ NII 0,5 Dw.t=1,29 4/4 $[w] = \frac{1}{2\pi} \int_{-\infty}^{\infty} \frac{1}{2\pi} \int_{-\infty}^{\infty$

B(t)=< {(t), {(t+t)} = A (cos(wt+y). = A2 S(cos(wt+105(200T+107+24)) d4= A2 cos w T 0/6 B(t) zabucem monoro om Z · exp 3 (t) - Condynohophan & unposean Curren 9(10)= [N/2 1) < 3/4)> = < 4> = ei wt > = 0 - comb Rq(T)= < (t)-9(++T)>= < Aeiw(++T)Ationty [N14] = <AA+eiwt>= <AA+>=eiwes= = 62 feine f(w) duz const y con ~ Delt)=<(5-(8))*)=< 8/4)8/4) 8/2, = R3(0)= 6 à J f (w) dw = 6 2 = const = s 28 H E(t) rb. Conoy CN & unpotions amount 2. (henry mioninouning) = 1517/7-88/4 at, 2/6 = 1 (62 / f(w) e int dw) = int dr= 61/2) 2 ye [N13] F(0)= la exp(-\$0)eine (1-8)0 620, 830

Bz(2)=h, < ff *(0, u) F(0+T, u) des u-1) (m - 4, a f = BB = Blot t) 10 forwell & Diwelled 25

2-62 é ive/ = -62 (é ive, ent - 6 hhwz, of io) > 0 the Corpornelace => markoro insaynonapriores 2) 2(T) = 6 2 8 hw. T, wo> 0 => cuying(10) 6 luge g.(w) = { a', |w| \ w, \ w, \ w, B.(t)= + go(w)eiwt/w=/ 2'eiwt/w= = 2 eint / = 002 ph w, T. Due $B(T) = B_0(T)$ hiposylanes $\left\{ \frac{\omega}{2a^2} = \frac{B^2}{w_0} \right\}$ Chemis himmounis $g(w) = \left\{ \frac{b^2}{2w_0}, |w| \leq w_0 \right\}$ 0 ,/w/>wo [NM] \$ (+) = A cos (wt +4), 2 2 (t) > = A / to con (wt+4) d4= A sh(w++4) / =0

e-mu2/2K89 du=n, a2 = B7 = 100 = 2 Je-23010 Jeine ut é enst du = 1, 1 et l'a · exp [- 15 7/ wc) 227 John gype conbolianus 1 en spaylingund but.

John of tet, ta)

John of spage conbolianus 1 en spaylingund but.

John of tets

Jo (3) B(ts, ta) = Ig(w) eiw(t, -ta) dw oti figlio) e interta 2 b/tito) = /g(w) (iw) e'w(ti-to) (-iw) dw = = 10 29(w) eiw (t, -t) dw; (2 (t, t)) = flog(w) in

= you] [w'g(w) dw

B(x) 26 2 (1+3/2) e a/2 axo 1) (may how : g(w) = 00 + 50 (02 w) = 5 2 2 + 2 2 + 2 B - Blo?

Doume Jours 9(10) 20 => 0/04 101) +8(01-102) = 0 20104 + Bw2+Ba2-Bw2= x3+Ba2+w2(a-B) = / 2. Danueren Freger Jw2g(w) du N16 Mig w 2 g(w) = 62 x 2/0 + B) w + /0 - B) w 4 221 J4x Apr 2+ B weglw win 52 (x B) 1)< 8 x= B w/g(w) ~ 25 223 = Mg Tyn aff Twiglw) dw pacagrune, tyn Pg(t =<(a = \$ cargames [N15] E(t) = x(t) y(t) = (t) (x/t), y(t), Z(t)-nyab) <x(t)>=<y(t)>=<7(t)>=0,9x(w),9x(w),9x(w) Hoper 1. T. K Heyo bellevets, mo BE (T) = (x/t) = (y/t) > (2/t) > =0 BE (T) = (x/t) y/(t) 2/t) x/(t+T) y/(t+T) = /(t+T))= = 1 = < x(t) x/t+T) > = Bx(t) By(T) Bz/T)
Dance: ge(w) = 1 | Be/T) = iwT/T 2) mil The choisemby recorpsychouse types go (w) = gx (w) & gy (w) & gz (w) = [gx/4) g (w-a) 200 - [gx/4) gy (v-u) du) gz (w-w) 200-- [gx/4) gy (v-u) du) gz (w-w) 200-Mx -D 9 (B+ (6)

2004 = 1/gx/u) gy (0-u) gz (15-v) dudo N16 8 (1) = mg(t) + 5 8 4 4 (-1) ma-gemepunnupoleannas que 8xm /4x(t) 4m(t) dt = 5xm = mg(t) + = < 3 x> 4x(t) = mg(t) Dg(t) = 6 = < (5(t) - < 8(t) >) >= =<(((((())-mg(E)))))>=<((=(5/2)/2/E)))>= 25くを見れていけかりかしり>= = No Sum Yu(t) Yu(t) - No Xu Yu(t) Hopmanonce painteg A(x,t) = 1 exp(-(x-<\(\frac{1}{2}\))) 2) $m_1(t_1) = \langle \xi(t_1) \rangle = m_{\xi}(t_1)$ $m_1(t_2) = \langle \xi(t_2) \rangle = m_{\xi}(t_2)$ $\overline{M}_{x} = \left(\frac{m_{x}(t_{1})}{m_{x}(t_{2})} \right) = \left(\frac{m_{x}(t_{2})}{m_{x}(t_{2})} \right), \quad \overline{\chi} = \left(\frac{\chi_{x}}{\chi_{x}} \right)$ De(4) - = (4) + De(4) - 31; 43(4) B=(4, 4)=< (5(4)-<5(4))/5(2)-<5(4))

=< (= = Pu(b)) (= fx 4x (b)) >= = 2 1 4x (b) 4x (b) pod B= (D\$(ti) B\$ (ti,ta) => B= 1 (D\$(ti) - B\$(1))

B\$ (ti,ti) D\$ (ti)) => B= 1 (D\$(ti) - B\$(1)) do det B = Dq (ta) Dq (ta) - (Bq (t, ta))2 Hopmanine painpegereume

A(X1, X2, ±1, ±2) = 1 The exp (- (X-M,) B (X-M)) do 4 = Non [NIT] \$(t) - hopm cmay pary <\$(t)>=0, B=(0)=62 ep2 c/2 2(t) = de(t) By (t1, t2) = 2 BE (ts, ta)
8 BE (t1, t2) = 6 & e - B2(t1-t2) 1/2 (-B2(t1-t2)) 1-1) dung $\frac{\partial^{2}Be(t_{1},t_{2})}{\partial t_{1}\partial t_{2}} = B^{2}G_{e}^{2}(t_{1}-t_{2})e^{-\beta^{2}(t_{1}-t_{2})^{2}/2}/2 -\beta^{2}(t_{1}-t_{2})^{2}/2$ $\cdot \{\beta^{2}G_{e}^{2}e^{-\beta^{2}(t_{1}-t_{2})^{2}/2}$ NIS 1) 00 By (T) = B 30 2 (1- B2+2) e-B2+2/2 HI <1(t)>= d< E(t)>=0 Dy (t) = By (0) = \$ 26 = 69

Representation pairpeganence

Ly (y,t) = 1 (y) (-y)

Ly (y,t) = 1 (y) (-y) h (MY

in Estounobier Cognotino beganding I ang - you nagenue my uno che uno & - you not - hu to morre ragenus closuro drag - roemoremas domp, &- ayr. benune 4 = ang - t, donp = 4-d = angg - 2t dom to to to the description of the total to the total to the total to the total total to the total to = 6= = \$\$\$ (rumaem < \$ (z)> = 0, B\$ (p)= \$(2) - Kopu Chicy CII 2 (Z) z tg 8(Z) => 62 = B2(0) = B262 3 5 y < 2 < 3 5 y e 6 6 76 to 99, 73 3/2 Montro vacunant, runo - arctg(3,56) 202 arctg(5,55)

dnog-2 arctg(3,56c) < drop 2 anog + 2 arctg (3,56)

dosp = 4 arctg(3,56e) 118 (5(t) - Denous augu , < 8(t) > =0 1) частопная и инприоспал реаруши H(w) = 1/jwe = 1+jwRc h(f)- of recorporal type m v ent mo h(T) = 1 ex (- T), T>0

2) Kobapuay of guenepe, cheurs michinoum y(b)

gr(w)=ge(w) |H(w)|= No

[f(t)= fg(w) e in t dw = f No (cosw t + i phot) dw=

- 1/70 = 2No fessor dw = 2No to e relate = IN. e-ITI - INO = ITI/RC; Dn(t)-B2/0)=TNO Be (t 3) Duenegers n(t) & repersyran pensere D2(t) = ft th (T) h(Ta) & (T1-T1) 17, dT1= 2 1 1 texp (- TI-TI) NOS (TI-TI) dt, dt= 2 No 1 = Ft dt 1 = FC 8(T1-T1) dT1= - 6 = 6 I₂ -= No (1-e re) N19 Bg(T)=6 expf-x73, a>0
BE(T)-? 99(w) = 1 / By(t) & will - 5 / Fore-will-

= 62 / = = -a(7+jw)2 - w d7= = 62 e 40 / e 24 = 6 e 40 / T = 62 e 40 $g(\omega) = g_2(\omega) = \sigma^2(1+\omega^2 \frac{L^2}{p^2}) = \frac{\omega^2}{4\omega}$ $\frac{1}{|M(\omega)|^2} = \frac{2}{3}\frac{1}{|M(\omega)|^2} = \frac{2}{3}\frac{1}{|M(\omega)|^2} = \frac{1}{2}\frac{1}{|M(\omega)|^2} = \frac{1}{$ + E L Dwe To eint dw = Int I2 I1 = 62 fe 40 (w-int) = at dw = $\frac{26e^{2}}{12} = 6^{2} \frac{1^{2}}{2\sqrt{\pi}d} \frac{1}{R^{2}-\infty} + \infty$ $\frac{1}{2\sqrt{\pi}d} = 6^{2} \frac{1^{2}}{R^{2}-\infty} + \infty$ = 52 L2 e-at2 [(u+i2xt)2 e 42 du= = 52 L2 E 2 2 2 [(25 x U+i2x T) 2 = 0 du-= 6 L' e-dで、8x2 / (0+21020でースで)をですい

= 46212 = 2 (I21+I22+I23) I23 = - a T2 fe do = - a T2 V# I22 = disa't [ve dv =0 I2, 2 Jue du = - 1 ve of + = Je du = on u) Be (r) = 62 = xt + 46 12 = xt (17 - 17 x rd) = = 62 = xt [1+4 = (= -xt)] N20 1) g1(w)=/H(iw)/2/2(w)= No No=K6+2 92(w) = K5 TR - 1 T 1+1022°C2 g(-w) = 2g2(w) = 255TR.1 2) $F(R) = g_1(w) = 2R + 1 + w^2 R^2 C^2$ $K_6 T = T + w^2 R^2 C^2$ a) for = 100 Fg, C= 210 HP, Ro1= 177, = 1680-10 8) f3=13 KTg, 202=1104 + Ros = 10 Om

3) Dn= / 39+10) dw= 2 K6 TR / 1+10=per dw=
27/4 wife wife 1(wre)=
77Re Jwire 1+10-per d(wre)= = 2 KBT (arety (271 fold) - arety (271 fold). 4) Dn = fgn (w) dw = 2 KBT (T-0) = KBT