Pr = (xx-y)(xx2+x) = (xx-y) {(xx-y)+y]2+x) = a ((a+y)2+x); Ea=0. Ea([a+p] + )= Ea(a2+2pa+p2+)= [Ea3+2pa2+p2a+)a=2p. Ε[a([a+μ]<sup>2</sup>+λ)]<sup>2</sup> = Ε[a<sup>2</sup>(a<sup>2</sup>+2μα+μ<sup>2</sup>+λ)<sup>2</sup>] = Ε[a<sup>2</sup>((a+μ<sup>2</sup>)<sup>2</sup>+(2μα+λ)<sup>2</sup> +2( maix)(a2+ p2) = Esa6 + a" (21, y2+2)+2, y2) + a2 (y4)2+2) + 0.a°.  $Ea^{4}=3$  =  $\sqrt{15+3(6y^{2}+2x)^{2}}$   $\sqrt{y^{2}+x^{2}}$   $\sqrt{y^{2}+x^{2}}$   $\sqrt{y^{2}+x^{2}}$  $15 + 3 \left( -2 \mu^{2} \right)$   $-4 \mu^{2}$  $||V=15+3(6\mu^2+2))+1|^2+1)^2-4\mu^2=V(x^4)$ win  $6x+(\chi^2+2\chi\mu^2)=\gamma \chi^2=-(\mu^2+3)$ + ( gr 2 - /22 -15+3 (4/-6)-4/12-13

min < (2+ M)2> N(2;0,1) m J (E+M)2 N (8;0,1) 28 = J 2 (E+M) N (8;0,1) 28 = ~ 2(ex+m), ExnN(E(0,1)) = 2 / e N(E,0,1) de + m \ N(&;0,1)de V 2 ( EK+M) = = 2 µ.

min < 9(2+ m) > N(210,1) 5 J9 (8+m) N (8191) 28 = e ~ ~ N( & ( °, 1) ~ Q(Ent p).

Jef (8+M) McE(0,1)de

5. < f; (x)7 = 0 x~M(x;h'\_77) 2.a & DS: < 6 max < \( \frac{1}{2} \frac{1}{ ρης < = ti (x;) P(x;μ) = < (x; μ) ( = ti (x;) + λ) > p(x;μ) ~ (x; - y;) (\(\sigma'\_1 - y'\_3) (\(\sigma'\_1 + \lambda'), \(\sigma'\_1  $V\left[\sum_{i=1}^{k}(\tilde{x}_{i}-\mu_{i})(\frac{1}{k},(\tilde{y}_{i})+\frac{\lambda}{2})\right]=V\left[\sum_{i\neq j}(\tilde{x}_{i}-\mu_{j})(\frac{1}{k},(\tilde{y}_{i})+\frac{\lambda}{2})\right]$ + V[(x;- M;)(+;(x;)+=))  $(n) = \sum_{i \neq j} V(x_j - \mu_j) (f_i(x_i) + \frac{\lambda}{2}) = \sum_{i \neq j} V(x_j - \mu_j) V(f_i(x_i) + \frac{\lambda}{2})$ 

Py:=<(xj-yj)(5/(xi)+))=  $= \langle (x_j - y_j)(f(x_j) + x) \rangle + \langle (x_j - y_j)(\sum_{i \neq j} f(x_i) + x) \rangle$ 1E = 1E,1E;  $\left(\sum_{i\neq j} f(x_i)_{i\neq j}\right) | E_j(x_j - \mu_j) = 0$ 

P(xi,x)=exp(2-l(x),x>- F(x)) PCX; T, NO) = +((T, NO) exp((X, T) - NO F(X)) b(y/x) x & b(x:x) b(y, 1, no) + (1-2) b(x:y) b(y, 2, no) = H(T, No) exp(<)/7+t(x)>-(No+1) F(x)). (H(T+tcx), p()(x) x & M(T, No) p(); 7+t(x), No+1) + (1-+) M(ž, No) p(); ž, t(x), (1+ an H (7 +tex) M(T+tcx),