```
赵确33到子野200310109
5.2 p(x;5)= /m exp(- 1/2 当が(n)) 計が(n) Iqx(n), ,,,x(N+1) >0)
                              = = 1 enp (- = 1/262 = 5(n)) | x(n) u(xmin)
                               = g(T(x); 52) M(x)
                       て(メ)= 岩がい
 J. 5 p(x; 0) = (28) 1 [u(x[n+0])-u( -1)]
                                    = (20)N U(0-max|x[n]).1
                                     = g(T(x); 6). hex)
                   T(x) = max | x[n] , n=0, ..., N-1
       幻 p(か)好。)= (2元52)母 exp{-去。 だいコーい2~fon)2]
                                      = (2152)至 exp{-26 (岩水川-2片水川005246n+岩005246n)].
                          品。s[n]cos 25fn. 刷测值为与科技计参数后转至在一起,f。鬼无合杂时显在战术得。
    去り (a) p(x)A)= (元学 exp{-一点 ! (x(n)-Acos れfon))
                                              M) T(x)= 岩 x[n] cos24fon
                            ET(x) = # Ex[n] cos24[n = # E(Acos7nfon + w/(n) cos24[on) = # Acos324[on
                        [FIN] A = T(x) = \frac{\frac{1}{2} x[n] cos 2 refore
\frac{1}{2} cos 2 refore
\frac{1}{2} cos 2 refore
               (b) 油(a) 知(n) = [ 岩(n) (os 2nfin ) A 不变为 岩(n) (os 2nfin ) 是 (sos 
                                 三岩が(n)= 岩(varが(n)+Ex(n)))= 岩A2052246n+N62
                            A \sim N(A, \frac{1}{(\frac{1}{2000}\cos^2 2n(m)^2)} = N(A, \frac{1}{(\frac{1}{2000}\cos^2 2n(m)^2)})
                      E² = A² + 夏 \omega s^2 2n f n

I) E(\stackrel{?}{=} (8^2[n]) 总 \stackrel{?}{=} (0s^2 2n f n) = A² \stackrel{?}{=} (\omega s^2 2n f n + N 6² - (A² <math>\stackrel{?}{=} (\omega s^2 n f n + 8²)
                    所吸含=析器》的程。cosmfon = (N-1)82
                            强上,奇=[杂]为此儿
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548
$$p(x[n]) = \frac{1}{\theta_2 - \theta_1} I[\theta_1 \leq x_n \leq \theta_2]$$

$$p(x; \theta) = \frac{1}{(\theta_2 - \theta_1)^N} I[\theta_1 \leq x_1, ..., x_N \leq \theta_2]$$

$$= \frac{1}{(\theta_2 - \theta_1)^N} I[x_{min} \geq \theta_1, x_{max} \leq \theta_2]$$

$$= \frac{1}{(\theta_2 - \theta_1)^N} \mathcal{U}(x_{min} - \theta_1) \mathcal{U}(\theta_2 - x_{max})$$

$$\mathcal{U}(x_{min} - \theta_1) \mathcal{U}(\theta_2 - x_{max})$$

$$\mathcal{U}(x_{max}) = \frac{1}{x_{max}} \mathcal{U}(x_{max})$$