HW3

1

1.
(用用发生式构造:
ho=1 h=2 h2=1
$\lambda_1 = \frac{1}{3}$ $\lambda_2 = \frac{1}{3}$ $\lambda_2 = \frac{1}{3}$ $\lambda_3 = \frac{1}{3}$
插键:
2 Xi f(Xi) f(Xi+, Xi) f(Xi+, Xi+, Xi+)
0 -2 -4
_ 1 -1 3 7
2 1 5 1 -2
3 2 10 5
i, d,=-12 d,=8 Mo=M3=0
$\frac{1}{2}$ $\frac{3}{3}$ $\frac{1}{2}$ $\frac{1}$
(= 2) (Mi) (8) (Mz=6.15
$S(x) = \left(-\frac{1.125}{(x+2)^3 + 1.815(x+2) + 4(x+1)}\right) \times E(-2, 1)$
0,5625 (x+1) \$ 0,6875(x-1) \$ +0,25(x+1) \$ 4,25(x-1) X [-1,1]
$[-1,125(X-2)^3+10(X-1)-3,875(X-2)$ XE [1,1]
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5(0)= 0,5625-0,6875+0,25+4,25=4,375.

2.

2 C . X - Y . X -X C X -1.05
$\frac{2}{x_{c}} \int_{0}^{\infty} (x) = \frac{x - x_{1}}{x_{c} - x_{1}} + (x_{c}) + \frac{x - x_{0}}{x_{c} - x_{0}} + (x_{1}) = \frac{x - x_{1}}{x_{0} - x_{0}} + 2.2 \frac{x - x_{1}}{x_{0} - x_{0}}$
= 44(X-1,05) &- 40(X-1,1) 1,05 \ X \ 1,05
$S_1(x) = \frac{x - x_1}{x - x_2} f(x_1) + \frac{x - x_1}{x - x_2} f(x_2) = 2 \cdot 2 \cdot \frac{x - 1/15}{x - 0/15} + 2/17 \frac{x - 1/1}{0/07}$
= 43,4(x-1,1) -44 (X-1,15) X = [10,1,15]
$S_2(x) = \frac{\lambda - x_3}{x_1 - x_4} f(x_1) + \frac{x - x_1}{x_2 - x_3} f(x_3) = 2.17 = 0.05 + 2.35 = 0.05$
$= 47(X-1,15)-43,4(X-1,20) \text{$\Lambda \in (15,120)$}$
i. 并在信息数: S= (44(X-1.05)-40(X-1.1) XE(1.05,1.10)
43,4(x7,1) - 44(x-1,15) XE[1,10,1,15]
(47 (X-1/15) - 43,4(X-1/2) XE[NIS, NO]
· f(1,075)≈S(1,075)=2,100
f(1,175)=5(1,175)=2,260

3.4.

3	1020		_		
	$+(X_{i-1},X_i)$	$f(X_{i-1},X_{i-1},X_i)$	f (x)-3, xi-2, xi-4, xi)		
0 1 2033	· ·				
1 2 2106	73				
2 3 2299.	193	60			
3 4 2672	373	90	10		
f(1,2) = 73	[1,2,3,4]=10				
$\frac{4}{2} \left(\frac{1}{2} \left(x \right) = \frac{\delta}{\lambda_1^2 - \lambda_2^2} \frac{x - \lambda_2^2}{\lambda_2 - \lambda_2^2}$					
$\sum_{i=0}^{6} (X_{i}^{3} + X_{i+1}^{2}) L_{i}(X) = \sum_{i=0}^{6} ((22)^{3} + (2i)^{2} + 1) \prod_{i=0}^{6} \frac{1 - X_{i}}{X_{i} - X_{i}}$					
$= x^3 + x^2 + 1$					
£ (x3+x2+1) (2(x)	1= 3x+2X				