Lec 13

2. G(y) =
$$(1+e^{x})$$
 在[a,b] 在结果不动生 G(f) = $(1+e^{x})$ (+e^f = e^{x}) $(1+e^{x}$

[mg/+) + (x-x*) 91x)] 2

(b)
$$S(x) = \frac{f(x)}{f'(x)}$$
, $S(x)$ Newton (x) (x)

极为终节

(1)
$$\chi_{h\eta} = \chi_h - m \frac{f(\chi_h)}{f'(\chi_h)}$$
 至少 2月 局部 2位 $\chi_h = \chi_h - m \frac{f(\chi_h)}{f'(\chi_h)}$ $\chi_h = \chi_h - m \frac{f(\chi_h)}{f'(\chi_h)}$ $\chi_h = \chi_h - m \frac{f(\chi_h)}{f'(\chi_h)} =$

3.
$$\sqrt{en} = \chi_{2} - \frac{f(\chi_{2})}{d}$$
 $p = 9,1,2, i \neq f(\chi^{\dagger}) = 9$

(b) \$\\\\ \(\psi^{(\mu)} \) =
$$1 - \frac{f'(\mu)}{d}$$

$$f^{(\mu)}(x) = - \frac{f'(\mu)}{d} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$= \frac{1}{2} + \frac{1}{2} \cdot \frac{1}{2}$$

(1) 是否在正义使二阶局部收敛。由(1) 是不从为中,取了一个(1)

Lec 15.
$$f: g: A = \frac{1}{2\pi} \int_{-\pi}^{\pi} f: A = \frac$$

$$F^{1}SF = \frac{1}{N} \left(\frac{1}{|w^{1} - w^{1}|} - \frac{1}{|w^{2} - w^{2}|} \right) \left(\frac{|w^{2} - w^{2}|}{|w^{2} - w^{2}|} \right)$$

$$A = \begin{pmatrix} \sin \frac{\pi}{N} & - & \sin \frac{M\pi}{N} \\ \vdots & & \vdots \\ \sin \frac{M\pi}{N} & - & \sin \frac{(M\pi)^{2}\pi}{N} \end{pmatrix}$$

$$B = \frac{2}{N} \begin{pmatrix} \sin \frac{\pi}{N} & - & \sin \frac{(M\pi)^{2}\pi}{N} \\ \vdots & & \vdots \\ \sin \frac{M\pi}{N} & - & - & \sin \frac{(M\pi)^{2}\pi}{N} \end{pmatrix}$$

$$Sin \frac{M\pi}{N} & - & - & \sin \frac{(M\pi)^{2}\pi}{N} \end{pmatrix}$$

$$(AB)_{sj} = \frac{1}{N} \sum_{k=1}^{N-1} \frac{\sin \frac{sk\pi}{N}}{\sin \frac{sk\pi}{N}} = \frac{1}{2} \sum_{k=1}^{N-1} \left[\cos \frac{(s-j)k\pi}{N} - \cos \frac{(s+j)k\pi}{N} \right]$$

$$= \left(\frac{1}{2} \operatorname{Re} \sum_{k=1}^{N-1} e^{i \frac{(s-j)k\pi}{N} + 1} - \frac{1}{2} \operatorname{Re} \sum_{k=1}^{N-1} e^{i \frac{(s-j)k\pi}{N} + 1} \right) \sum_{k=1}^{N-1} e^{i \frac{(s-j)k\pi}{N} + 1}$$

$$= \left(\frac{0}{N} \sum_{k=1}^{N+1} e^{i \frac{(s-j)k\pi}{N} + 1} \right) \sum_{k=1}^{N-1} e^{i \frac{(s-j)k\pi}{N} + 1}$$

$$= \left(\frac{0}{N} \sum_{k=1}^{N+1} e^{i \frac{(s-j)k\pi}{N} + 1} \right) \sum_{k=1}^{N-1} e^{i \frac{(s-j)k\pi}{N} + 1}$$

$$= \left(\frac{0}{N} \sum_{k=1}^{N+1} e^{i \frac{(s-j)k\pi}{N} + 1} \right) \sum_{k=1}^{N-1} e^{i \frac{(s-j)k\pi}{N} + 1}$$

2. DCT

$$\int_{k} = \frac{1}{2} (f_{0} + (1)^{k} f_{0}) + \sum_{k=1}^{k-1} f_{k} (s) \sum$$