

第3次作业

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$$f_{\text{threshold}}(Ch3)$$
 $2022.3.13 (duc dec)$

1. Eq.: (a) $y[-1] = 0 \Rightarrow y[0] = v^2 + y[-1] = 0 \Rightarrow y[0] = v^2 + y[-1] = 1$

$$\Rightarrow y[-2] = v^2 + y[-1] = 5 \Rightarrow f_{\text{threshold}}(S_{\text{threshold}($$



2.(3)
$$\frac{1}{16}$$
: $\frac{1}{16}$:



4.
$$k_{0}^{2}: (1) 2^{n} w[n] * 3^{n} w[n] = \left[\sum_{k=0}^{N} 2^{k} w[k] 3^{n+k} w[n-k]\right] w[n]$$

$$= 3^{n} w[n] \sum_{k=0}^{n} (\frac{2}{3})^{k} = 3^{n} w[n] \frac{1 - (\frac{2}{3})^{n+k}}{1 - 2/3}.$$

$$(2) 2^{n} w[-n] * 3^{-n} w[-n] = w[0-n] \sum_{k=0}^{n} 2^{k} w[-k] \frac{1}{3} w[k-n]$$

$$= w[-n] 3^{-n} \sum_{k=0}^{n} (\frac{3}{2})^{k} = w[-n] 3^{-n} (\frac{2}{3})^{n} \frac{1 - (\frac{2}{3})^{1-n}}{1 - 3/2}.$$

$$5. k_{0}^{2}: (1) \begin{cases} 1 \cdot n < 0 : y = 0. \\ 2 \cdot 1 \le n < 3 : y = \sum_{k=0}^{n} 2^{k} = \frac{1 - 2^{n+k}}{1 - 2}. \end{cases}$$

$$3^{n} w[n] * [w[n] - w[n-k]] = \left[\sum_{k=0}^{n} 2^{n+k} - \frac{1 - 2^{n+k}}{1 - 2}.\right]$$

$$\Rightarrow 2^{n} w[n] * [w[n] - w[n-k]] = \left[\sum_{k=0}^{n} 2^{n+k} - \frac{1 - 2^{n+k}}{1 - 2}.\right]$$

$$\Rightarrow 2^{n} w[n] * [w[n] - w[n-k]] + \sum_{k=0}^{n} 2^{n} w[n] * w[n] + \sum_{k=0}^{n} 2^{n} w[n] * w[n]$$

$$\Rightarrow 2^{n} w[n] * [w[n] - w[n-k]] + \sum_{k=0}^{n} 2^{n} w[n] * w[n] * w[n] + \sum_{k=0}^{n} 2^{n} w[n] * w$$



(a)
$$\frac{1}{1-1} + \frac{1}{1-1} = \frac{1}{1-1} =$$

(b)
$$\frac{1}{N} = 0$$
 ($\frac{1}{N} = 0$ ($\frac{1}{N} = 0$) $\frac{1}{N} =$

(c)
$$h(-1) \neq 0 \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{2} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^{+\infty} (\frac{1}{3})^n < \infty \Rightarrow \pi \text{ with } = \sum_{n=-\infty}^{+\infty} 3^n = \sum_{n=-\infty}^$$

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