(2) 
$$f(\lambda) = \lambda^{2}; \quad \lambda \in [-\pi, \pi]$$

$$Y(\lambda) = \int_{-\pi}^{\pi} e^{i\lambda\lambda} f(\lambda) d\lambda$$

$$Y(0) = \int_{-\pi}^{\pi} \lambda^{2} d\lambda = \frac{2\pi^{3}}{3}$$

$$\frac{h \neq 0}{r(h)} = \int_{-\pi}^{\pi} \lambda^{-} e^{ih\lambda} d\lambda \\
= \lambda^{-} \frac{e^{ih\lambda}}{ih} - \int_{-\pi}^{2\lambda} \frac{e^{ih\lambda}}{ih} d\lambda$$

(a) 
$$Z_{t} = X_{t} + Y_{t}$$
  
 $Y_{t}(x) = Y_{t}(x) + Y_{t}(x)$   
 $f_{t}(x) = \frac{1}{2\pi} \sum_{k=-1}^{2\pi} e^{-ikx} Y_{t}(x)$   
 $= \frac{1}{2\pi} \sum_{k=-1}^{2\pi} e^{-ikx} (Y_{t}(x) + Y_{t}(x))$   
 $= \frac{1}{2\pi} \sum_{k=-1}^{2\pi} e^{-ikx} (Y_{t}(x) + Y_{t}(x))$   
 $= \frac{1}{2\pi} (x) + \frac{1}{2\pi} (x)$   
 $= \frac{1}{2\pi} (x) + \frac{1$ 

$$\begin{array}{l}
X(t) = \theta(\theta) \cup_{t}, \quad \theta(\theta) = (\alpha_{1} + \alpha_{2} \cdot \theta + \alpha_{3} \cdot \theta^{2} + \alpha_{4} \cdot \theta^{3}) \\
 + (\lambda) = \int_{0}^{\infty} (\lambda) \int_{0}^{\infty} \alpha_{3}^{2} e^{ij\lambda} (\sum_{j=-1}^{\infty} \alpha_{j}^{2} e^{-ij\lambda}) \\
 = \frac{\pi^{2}}{2\pi} \theta(e^{i\lambda}) \theta(e^{-i\lambda}) \\
 = \frac{\pi^{2}}{2\pi} (\theta_{0} + \theta_{1} e^{-i\lambda} \theta_{2} e^{-2i\lambda} + \dots + \theta_{q} e^{-qi\lambda}) \\
 = \frac{\pi^{2}}{2\pi} \left[ (\theta_{0}^{\lambda} + \dots + \theta_{q}^{2} e^{2i\lambda} + \dots + \theta_{q} e^{2qi\lambda}) \\
 + e^{i\lambda} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) \\
 + e^{i\lambda} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) \\
 + e^{-i\lambda} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) \\
 + \theta_{0} \theta_{q} e^{qi\lambda} + \theta_{0} \theta_{q} e^{-qi\lambda} \\
 = \frac{1}{2\pi} \sum_{k=-q}^{2} e^{-i\lambda k} \tau(k) \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
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 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
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 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ; \quad k = 0 \neq 1, \dots, pq \\
 = \int_{0}^{2\pi} (\theta_{0} + \dots + \theta_{q}^{2} + \theta_{q}^{2}) ;$$

(7) An absolutely summable Y(.) is ACVFTH it is even and  $f(\lambda) = \frac{1}{2\pi} \sum_{k=-4}^{2} e^{-ik\lambda} Y(k) \geqslant 0 \quad \forall \lambda$   $Y(k) = \begin{cases} 1, & k=0 \\ -.5, & k=\pm 2 \end{cases}$   $\begin{cases} -.5, & k=\pm 3, \\ 0, & \forall \mu \end{cases}$ 

$$\begin{cases} \{z_{k}\} \xrightarrow{q} \{x_{k}\} \xrightarrow{q} \{x_{k}\} \\ \{z_{k}\} = 1 & \forall \lambda \in [-\pi, \pi] \end{cases} \\ \forall_{x}(\lambda) = 1 & \forall \lambda \in [-\pi, \pi] \end{cases}$$

$$\begin{cases} Y_{x}(\lambda) = e^{-1\lambda \lambda} \\ Y_{x}(\lambda) = e^{-1\lambda \lambda} = e^{-1\lambda \lambda} e^{-1\lambda \lambda} = e^{-1\lambda \lambda} \end{cases}$$

$$= \frac{1}{2\pi} \left[ 1 + \sum_{k=1}^{2} e^{-1k\lambda} e^{-k} + \sum_{k=1}^{2} e^{-1k\lambda} e^{-k} \right]$$

$$= \frac{1}{2\pi} \left[ 1 + \frac{e^{-(1\lambda+1)}}{1 - e^{-(1\lambda+1)}} + \frac{e^{-1\lambda-1}}{1 - e^{-1\lambda-1}} \right]$$

$$= \frac{1}{2\pi} \left[ \frac{(1 + e^{-1\lambda} - e^{-1\lambda+1}) (1 - e^{-1\lambda-1})}{(1 - e^{-1\lambda-1}) (1 - e^{-1\lambda-1})} \right]$$

$$= \frac{1}{2\pi} \left[ \frac{1 - e^{-2\lambda}}{(1 - e^{-1\lambda+1}) (1 - e^{-1\lambda-1})} \right]$$

$$Y_{k} = \sum_{j=-k}^{2} 3_{j} \times e^{-j}$$

$$Y_{k} = \sum_{j=-k}^{2} 3_{j} \times e^{-j} \times e^{-j}$$

$$Y_{k} = \sum_{j=-k}^{2} 3_{j} \times e^{-j} \times e^{-j} \times e^{-j} \times e^{-j} \times e^{-j} \times e$$

$$f_{y}(\lambda) = (f_{x}(\lambda)) (wi3 *)$$

$$= \int_{1-e^{-2}}^{1-e^{-2}} f_{y}(\lambda) = \left(\frac{1}{2\pi} \cdot \frac{1-e^{-2}}{(1-e^{-2}\lambda-1)(1-e^{-2}\lambda-1)}\right).$$

(10)

$$x_{k} = \epsilon_{k} + 0 \epsilon_{k-1}, \quad \epsilon_{k} \sim WN(0,1)$$

$$Y_{k} \sim WN(0,1), \quad \{Y_{k}\}_{k} \{\epsilon_{k}\}_{k}\}_{k} \text{ indep}$$

$$Z_{k} = \sum_{j=-1}^{n} Y_{j} \times \xi_{k-j} + \sum_{j=-1}^{n} \theta_{j} Y_{k-j}$$

$$Y_{j} = \begin{cases} 0.5, \quad 3 = \pm 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1, \quad j = 0, 1 \\ 0, \quad 6 \end{bmatrix} \qquad \theta_{j} = \begin{cases} 1$$

:. 
$$f_2(\pi) = \frac{(1-\theta)^2}{2\pi} + \frac{2}{\pi}$$

(11) 
$$X_{t} = A G_{0} [\pi_{A_{t}}] + B Sim[\pi_{A_{t}}] + Y_{t}$$
 $Y_{t} = \frac{1}{2} E_{t}$ 
 $A A B U.C. 7.4 memo ~ wor for E_{t} U.C. interval  $A A B$ 
 $F_{x}(\lambda) = F_{2}(\lambda) + F_{y}(\lambda).$ 
 $F_{x}(\lambda) = F_{2}(\lambda) + F_{y}(\lambda).$ 
 $F_{x}(\lambda) = \int_{-\pi}^{\pi} e^{i\lambda \lambda} dF_{2}(\lambda)$ 
 $F_{x}(\lambda) = \int_{-\pi}^{\pi} e^{i\lambda \lambda} dF_{2}(\lambda) dA = \int_{-\pi}^{\pi} e^{i\lambda} dF_{2}(\lambda)$ 
 $F_{x}(\lambda) = \int_{-\pi}^{\pi} e^{i\lambda \lambda} dF_{2}(\lambda) dA = \int_{-\pi}^{\pi} e^{i\lambda} dF_{2}(\lambda)$ 
 $F_{x}(\lambda) = \int_{-\pi}^{\pi} e^{i\lambda \lambda} dF_{2}(\lambda) dA = \int_{-\pi}^{\pi} e^{i\lambda} dF_{2}(\lambda)$ 
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 $F_{x}(\lambda) = \int_{-\pi}^{\pi} e^{i\lambda} dF_{2}(\lambda)$$ 

$$\begin{array}{lll}
(12) & x_{+} = \alpha_{1} (a_{0} + + \alpha_{1} s_{1} + y_{+}) \\
1.c. & x_{+} = \frac{2}{2} + y_{+} ; & 2_{+} = \alpha_{1} (a_{0} + + \alpha_{1} s_{1} - h_{+}) \\
y_{+} = e_{+} - e_{+-1} \\
& + y(\lambda) = \frac{\alpha_{+}}{2\pi} \left( 1 - e^{i\lambda} \right) \left( 1 - e^{-i\lambda} \right) \\
& = \frac{\alpha_{+}}{4\pi} \left( 1 - a_{0} \lambda \right) d\lambda \\
& = \frac{\alpha_{+}}{4\pi} \left( \lambda - s_{1} a_{0} \lambda \right) d\lambda \\
& = \frac{\alpha_{+}}{\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) \\
& + \frac{\alpha_{+}}{4\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) \\
& + \frac{\alpha_{+}}{4\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) \\
& = \left( \frac{3}{\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) , & -\pi \leq \lambda < -1 \\
& + \frac{3}{\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) , & -1 \leq \lambda < 1 \\
& + \frac{3}{\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) , & 1 \leq \lambda \leq \pi \\
& + \frac{3}{\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) , & 1 \leq \lambda \leq \pi \\
& + \frac{3}{\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) , & 1 \leq \lambda \leq \pi \\
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& + \frac{3}{\pi} \left( \pi + \lambda - s_{1} a_{0} \lambda \right) , & 1 \leq \lambda \leq \pi \\
& + \frac{3}{\pi}$$