$$\widetilde{W}_{2}^{2} = \widetilde{V}_{2}^{2} - (\underbrace{\overrightarrow{e}_{1}, V_{2}}_{1}) \underbrace{\overrightarrow{e}_{1}}_{1} = (3, 7, -2) - (\underbrace{3 + 21 + 4}_{1/4}) \underbrace{(1, 3, -2)}_{1/4} = (\underbrace{7, 7, -2}_{1/4}) = \underbrace{(1, 3, -2)}_{1/4} =$$

$$=(3-2,7-6,-2+4)=(1,1,2)$$

$$\overrightarrow{U_{2}} = \underbrace{\overline{U_{2}}}_{||\overrightarrow{U_{2}}||} = \underbrace{(1, 1, 2)}_{||1+1+4|} \cdot \underbrace{\frac{1}{\sqrt{16}}}_{||6|} \cdot (1, 1, 2)$$

$$\vec{e}_1 = (1, 3, -2)$$
 $\vec{e}_2 = (1, 1, 2)$
 $\vec{e}_3 = (1, 1, 2)$

$$\begin{array}{l}
\bullet \overrightarrow{V}_{1} = (1,3,1) \quad \overrightarrow{V}_{2} = (5,1,3) \quad \overrightarrow{V}_{3} = (7,6,-8) \quad \overrightarrow{e}_{1}, \overrightarrow{e}_{2}, \overrightarrow{e}_{3} = ? \\
\overrightarrow{e}_{1} = \overrightarrow{V}_{1} \quad \overrightarrow{u}_{1} = \cancel{u}_{1} \quad (7,3,1) \\
\overrightarrow{e}_{2} = \overrightarrow{u}_{2} \quad \overrightarrow{u}_{2} \quad \overrightarrow{v}_{2} \quad \overrightarrow{v}_{2} \quad (\overrightarrow{e}_{1},\overrightarrow{V}_{2}) \quad \overrightarrow{e}_{1} = (5,1,3) - \cancel{1}_{1}(5+3+3)(7,3,1) = \\
= (5-1,1-3,3-1) = (4,-2,2) \Rightarrow \overrightarrow{e}_{2} = \cancel{1}_{1}(2,-1,1) \\
\overrightarrow{e}_{3} = \overrightarrow{u}_{3} \quad \overrightarrow{u}_{3} = \overrightarrow{V}_{3} - (\overrightarrow{e}_{1},\overrightarrow{V}_{3}) \overrightarrow{e}_{4} - (\overrightarrow{e}_{2},\overrightarrow{V}_{3}) \overrightarrow{e}_{2} = (7,6,-8) - \\
- (1+18-9)(1,3,1) - (2-6-8)(2,-1,1) = (7,6,8) - (7,3,1) + \\
+ (4,-2,2) = (4,1,9) \Rightarrow \overrightarrow{e}_{3} = (4,1,3) \cdot \overrightarrow{v}_{3} = (7,1,9) \cdot \overrightarrow{v}_{$$

$$e_{\bullet}(x) = \frac{P_{\bullet}(x)}{||P_{\bullet}(x)||} = \frac{1}{\frac{h_{0}}{h_{0}} dx} = \frac{1}{1} = 1$$

$$e_{i}(x) = \frac{\omega_{i}(x)}{\|\omega_{i}(x)\|_{1}}; \ \omega_{i}(x) = p_{i}(x) - \{e_{i}, p_{i}\} e_{i} = x-1 - \int_{1}^{\infty} (x-1) dx = x-1 + 1 = x\}$$

$$e_{1}(x) = x \cdot \left(\int_{-y_{1}}^{y_{2}} x^{2} dx \right)^{-7} = x \left(\frac{x}{3} \right)^{\frac{7}{4}} = 4 x = 2 \sqrt{3} \times$$

$$e_2(x) = \frac{\omega_2(x)}{|\omega_2(x)|}, \omega_2(x) = P_2(x) - \langle e_0, P_2 \rangle e_0(x) - \langle e_1, P_2 \rangle e_1(x) = \frac{|P_2(x)|}{|P_2(x)|}$$

$$= x^{2} \times +1 - \int_{-\frac{1}{2}}^{\frac{1}{2}} (x^{2} - x + 1) dx - \int_{-\frac{1}{2}}^{\frac{1}{2}} (x^{2} - x + 1) 2 \sqrt{3} x dx - 2 \sqrt{3} x dx$$

$$= \chi^{2} - \chi + 1 - \frac{1^{3}}{12} + \frac{2\sqrt{3}}{2\sqrt{3}} \chi = \chi^{2} - \frac{7}{12}$$

$$e_{2}(\chi) = \left(\chi^{2} - \frac{7}{12}\right) \cdot \left(\int_{-\frac{1}{2}}^{\frac{1}{2}} (\chi^{2} - \frac{7}{12})^{2} d\chi\right)^{-\frac{7}{2}} = 6\sqrt{5} \left(\chi^{2} - \frac{7}{12}\right)^{2}$$

$$e_{o}(x) = 1$$
 $e_{1}(x) = 2\sqrt{3} \times e_{2}(x) = 6\sqrt{5} \left(x^{2} - \frac{1}{12}\right)$

3)
$$f^{(2)}(x) = f^{(2)}(2\pi + x), \forall 2 = 0,1,..., K$$

$$\frac{f(x) e^{iux}}{(-iu)} \int_{-\bar{u}}^{\bar{u}} = \frac{f(\bar{u}) (e^{-i\bar{u}})^{u} - f(-\bar{u}) (e^{-i\bar{u}})^{u}}{(-iu)} = \frac{f(\bar{u})}{(-iu)} (-iu)^{u} - (-iu)^{u} = \frac{f(\bar{u})}{(-iu)} (-iu)^{u} = \frac{f(\bar$$

$$= \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{(ih)} dx = \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{(ih)^{K}} dx = \frac{1}{h^{K}} \cdot \frac{1}{i^{K}} \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{dx} dx$$

$$= \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{(ih)^{K}} dx = \frac{1}{h^{K}} \cdot \frac{1}{i^{K}} \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{dx} dx$$

$$= \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{(ih)^{K}} dx = \frac{1}{h^{K}} \cdot \frac{1}{i^{K}} \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{(ih)^{K}} dx$$

$$= \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{(ih)^{K}} dx = \frac{1}{h^{K}} \cdot \frac{1}{i^{K}} \int_{-\pi}^{\pi} \frac{f'(x) e^{-ihx}}{(ih)^{K}} dx = \frac{1}{$$

$$\frac{(4)}{4} \wedge (4) = \begin{cases}
1 - \frac{2}{2} |x|, |x| < \frac{\omega}{2}, \int_{S} \frac{1}{T}, \int_{S} \frac{1}{$$

$$=2\exp\left(\frac{-i\pi\kappa}{2L}\left[\left[\frac{\omega f_{s}\right]+1}{2}\right]+\left[\omega f_{s}\right]+3\right)\frac{\sin\left(\frac{\pi\kappa}{2L}\left[\left[\frac{\omega f_{s}\right]+1}{2}\right]-\left[\omega f_{s}\right]\right)}{\sin\left(\frac{\pi\kappa}{2L}\right)}+\frac{2}{\omega f_{s}}\cdot\frac{1}{\left(1-\exp\left(-i\frac{2\pi\kappa}{L}\right)\right)^{2}}\cdot\left(1-\left[\left[\omega f_{s}\right]+1\right]-\exp\left(-i\frac{2\pi\kappa}{L}\left[\left[\omega f_{s}\right]\right]\right)\right)+\left[\omega f_{s}\right]^{2}}{\left(1-\left[\left[\omega f_{s}\right]+1\right]-\exp\left(-i\frac{2\pi\kappa}{L}\left[\left[\omega f_{s}\right]\right]\right)\right)}+\left[\omega f_{s}\right]^{2}$$

$$+\left[\omega f_{s}\right]\exp\left(-i\frac{2\pi\kappa}{L}\left[\left[\omega f_{s}\right]+1\right]\right)=y_{\kappa}$$