DEPI Sommar 2

$$(a,b)$$
 (a,b) (a,b) (a,b)

$$\alpha = 2$$

$$\mu_{x} = \overline{\chi} = f(\overline{t}) = \left((x) w_{1}(x) dx = \int x \cdot \frac{1}{b-a} dx \right)$$

$$= \frac{1}{b-ox} \left(x dx = \frac{1}{b-ox} \cdot \frac{x^2}{2} \right) = \frac{1}{2(b-ox)} \cdot \left(\frac{b^2 - a^2}{2} \right) = \frac{a+b}{2} = \frac{a+b}{2} = \frac{a+b}{2}$$

$$\frac{1}{x^2} = \frac{1}{x^2} = \frac{1}{b^2} = \frac{1}$$

$$= \frac{2+b^2+ab}{3} = \frac{ac^2}{3} > 0$$

$$T^{2} = T_{\text{PH}}^{2} = \frac{b}{(x-\mu)^{2}} w_{1}(x) dx = \frac{b}{(b-a)} dx = \frac{1}{b-a} \cdot \frac{b}{(x-\mu)^{2}} dx = \frac{1}{b-a} \cdot \frac{b}{a}$$

$$= \frac{1}{(b-a)^{3}} \left((b-\mu)^{3} - (a-\mu)^{3} \right) \stackrel{\text{def}}{=} \frac{1}{8 \cdot 3} \left((10-6)^{3} - (2-6)^{3} \right) = \frac{1}{24} \left(64+64 \right) = \frac{128}{24} \epsilon^{\frac{16}{3}}$$

$$\sqrt{\frac{2}{3}} = \sqrt{\frac{2}{3}} - \sqrt{\frac{2}{3}} = \frac{124 - 108}{3} = \frac{16}{3}$$

b).
$$W_{\lambda}(x) = \begin{cases} \frac{1}{2} - \frac{1}{8} \cdot x, & x \in [0, +] \\ 0, & \text{od} \end{cases}$$

$$\frac{1}{x} = \frac{1}{x} = \frac{1}$$

$$= \frac{1}{2} \cdot \frac{x^{2}}{2} \Big|_{0}^{4} - \frac{1}{8} \cdot \frac{x^{3}}{3} \Big|_{0}^{4} = \frac{1}{2} \cdot \frac{16}{2} - \frac{1}{8} \cdot \frac{x^{3}}{3} = 4 - \frac{16}{6} = 4 - \frac{8}{3} = \frac{128}{3} = \frac{9}{3}$$

= 1.33

$$\frac{\chi^{2}}{\chi^{2}} = \frac{1}{4} \frac{\chi^{2}}{1} = \frac{\chi^{2}}{1} \frac{\chi^{2}}{1} = \frac{\chi^{2}}{1} \frac{\chi^{2}}{1} \frac{\chi^{2}}{1} = \frac{\chi^{2}}{1} \frac{\chi^{2}}{1} \frac{\chi^{2}}{1} = \frac{\chi^{$$

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

$$\frac{10}{10} = \frac{10}{10} = \frac{10}{10} = \frac{25}{10} = 2.5$$

$$\frac{1}{2.25} = \frac{1}{2.5} - \frac{1}{0.5}$$

$$\begin{array}{lll}
\text{Ref} \left[\overline{6} \right] &=& f(+) \cdot f(+) \overline{6} \\
\text{Ref} \left[\overline{6} \right] &=& \frac{(-1)(-1) + 2 \cdot 2 + (-1)(-1) + 2 \cdot 2 + \dots + 2 \cdot 2}{10} &=& \frac{25}{10} = 2 \cdot 5 = \overline{4} \overline{6} \\
\text{Ref} \left[\overline{1} \right] &=& \frac{(-1) \cdot 2 + 2 \cdot (-1) + (-1) \cdot 2 + 2 \cdot (-1) + \dots + (-1) \cdot 2}{9} &=& -2 \\
\text{Ref} \left[\overline{1} \right] &=& \frac{(-1) \cdot 2 + 2 \cdot (-1) + (-1) \cdot 2 + 2 \cdot (-1) + \dots + (-1) \cdot 2}{9} &=& 2.5 \\
\text{Regold} \\
\text{Ref} \left[\overline{1} \right] &=& \frac{2(-1) \cdot (-1) + 2 \cdot 2 + (-1)(-1) + \dots + (-1) \cdot 2}{9} &=& 2.5 \\
\text{Regold} \\
\text{Regold} &=& \frac{2(-1) \cdot (-1) + 2 \cdot 2 + (-1)(-1) + \dots + (-1) \cdot 2}{9} &=& -2
\end{array}$$

