Some as some 1.

$$\mu = x = \int_{-\infty}^{\infty} x \cdot w_1(x) dx = \int_{-\infty}^{\infty} x \cdot \frac{1}{b-a} dx = \frac{1}{b-a} \cdot \frac{x^2}{3} \Big|_{a}^{b} = \frac{1}{3(b-a)} \cdot \frac{b-a}{3} \Big|_{a}^{b} = \frac{a+b}{3(b-a)} \cdot \frac{a+b+b}{3} \Big|_{a}^{b} = \frac{a+b}{3(b-a)} \cdot \frac{a+b+b}{3(b-a)} \Big|_{a}^{b} = \frac{a+b+b}{3(b-a)} \frac{a+b+$$

$$\nabla^{2} = X^{2} - (X)^{2} = \frac{6(2 + ab + b)^{2}}{3} - \frac{(a + b)^{2}}{4} = \frac{4a^{2} + 4ab + 4b^{2} - 3a^{2} - 3b^{2} - 6ab}{12}$$

$$= \frac{a^{2} + b^{2} - 2ab}{12} = \frac{(a - b)^{2} + (b - a)^{2}}{12}$$

b).
$$W_1(x) = \left| \frac{1}{2} - \frac{1}{8} x \right|$$

$$W_{1}(x) = \begin{vmatrix} \frac{1}{2} - \frac{1}{8}x \\ 0 \end{vmatrix} \times \left(\frac{1}{2} + \frac$$

$$\overline{X} = \begin{cases} x \cdot w_1(x) dx = \begin{cases} x - \frac{1}{2}x \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x^2 dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx - \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{8} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \begin{cases} x dx \\ 0 \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2} \end{cases} dx = \frac{1}{2} \begin{cases} x dx + \frac{1}{2} \end{cases} dx = \frac{1}{2}$$

$$= \frac{1}{2} \cdot \frac{x^{2}}{2} \Big|_{0}^{4} - \frac{1}{8} \cdot \frac{x^{3}}{3} \Big|_{0}^{4} = \frac{4^{2}}{4} - \frac{1}{246} \cdot \frac{x^{2}}{4}$$

$$= \frac{4}{6} - \frac{16}{6} = 4 - \frac{8}{3} = \frac{4}{3} = 1.33$$

$$\frac{x^{2}}{x^{2}} = \int_{-\infty}^{\infty} x^{2} w_{x}(x) = \int_{0}^{4} x^{2} \left(\frac{1}{2} - \frac{1}{8}x\right) dx = \frac{1}{2} \int_{0}^{4} x^{2} dx - \frac{1}{8} \int_$$

$$= \frac{64}{6} - \frac{16}{2} = \frac{32}{3} - 8 = \frac{32}{3} - \frac{24}{3} = \frac{8}{3}$$

$$\frac{1}{(x-u)^2} = \frac{\chi^2 - (\chi)^2}{\chi^2 - (\chi)^2} = \frac{8}{3} - \frac{4}{3} = \frac{24}{9} - \frac{16}{9} = \frac{8}{9}$$

$$\frac{10}{(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2}+(-1)^{2}+2^{2$$

$$\frac{1}{\sqrt{2}} = \frac{(-1-0.5)^{2} + (2-0.5)^{2} + (-1-0.5)^{2} + \dots}{10} = \frac{1.5 + 1.5 + \dots}{10} = \frac{1.5}{10} = \frac{$$

$$R_{xx}[\delta] = x[k] \cdot x[t+\delta]$$

-2 = Ref (9)

$$R_{ff} \begin{bmatrix} -1 \end{bmatrix} = \begin{cases} 1 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2 & -1 & 2$$

$$(3) s(t) = cos(z \overline{1} | t)$$

c.c. =
$$\overline{S(t)}$$
 = $\lim_{T\to\infty} \frac{1}{2T} \int_{A(t)}^{COS} (2\pi ft) dt = 0$

$$P = \frac{A^2}{s(+)^2} = \frac{A^2}{z^2}$$

$$P_{oc} = \sqrt{\frac{2}{2}} = \frac{A^2}{2}$$

$$P_{oc} = \sqrt{\frac{2}{2}} - (\sqrt{2}(+)) = \frac{A^2}{2}$$