

W E A

WELLS

WELLS



$$\int e^{-i2\pi st} w(t) dt \text{ and}$$

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$$\int e^{i2\pi st} \tilde{w}(s) ds.$$

$$C_w = \int \frac{1}{|s|} \tilde{w}(s) ds.$$

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$v(t) = \cos(2\pi t) - \pi t^2$



$$\int w(xt) dx = C_w \cdot \delta(t).$$



$$\text{Proof : } \int w(vt) dv = \int \left\{ \int \frac{1}{|u|} \tilde{w}\left(\frac{s}{u}\right) e^{i2\pi st} ds \right\} dv \dots$$

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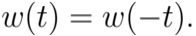
$$\int w(xt) dx$$

$$\int \int \left| \frac{v'}{s'} \right| \tilde{w}(v') e^{i2\pi s' t} \left| \frac{s'}{v'^2} \right| ds' dv'$$

$$\int \int_{|x'|} \frac{1}{x'} \tilde{v}(x') e^{i2\pi s' t} ds' dx'$$

$$\left\{ \frac{1}{|x'|} \tilde{w}(x') dx' \right\} \cdot \left\{ \int e^{i2\pi s' t} ds' \right\}$$

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$$F(x, a) = \int v[x(a-t)] f(t) dt.$$









$$f(t) = \int_{-\infty}^{\infty} F(x, a = t) dx.$$

$$\text{Proof: } C_w^{-1} \int F(w, a = t) dw$$

$$C_w^{-1} \int \left\{ w [w(t-t')] f(t') dt' \right\} dw$$

$$\int_w^{-1} \left\{ \int v [v(t-t')] dv \right\} f(t') dt'$$

$$C_w^{-1} \int C_w \delta(t - t') f(t') dt'$$

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$$t(\tau_0) + (\tau - \tau_0) \cdot \frac{dt}{d\tau}(\tau_0) \quad \text{and}$$



$$\tau_0 + [t - t(\tau_0)] \cdot \left[\frac{dt}{d\tau}(\tau_0) \right]^{-1} \cdot$$

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$$G(v, b) = \int w[v(b - \tau)]g(\tau) d\tau \quad \text{and}$$

$$g(\tau) = C_w^{-1} \int G(v, b = \tau) dv.$$

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$$G(v, b) \approx \left| \frac{dt}{d\tau}(b) \right|^{-1} F \left\{ u = v \cdot \left[\frac{dt}{d\tau}(b) \right]^{-1}, a = t(b) \right\}.$$

FRIDAY : GIVEAWAY

$$\int w [v(b - \pi)] \cdot f [t(\pi)] d\pi$$

$$\int v[v(b - \tau)] \cdot f \left[t(b) + (\tau - b) \cdot \frac{dt}{d\tau}(b) \right] d\tau \dots$$





$$t(b) + (\tau - b) \cdot \frac{dt}{d\tau}(b) \quad \text{and}$$



$$b + [t' - t(b)] \cdot \left[\frac{dt}{d\tau}(b) \right]^{-1} \cdot$$

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$$\int w \left\{ v \cdot [t(b) - t'] \cdot \left[\frac{dt}{d\tau}(b) \right]^{-1} \right\} \cdot f(t') \cdot \left| \frac{dt}{d\tau}(b) \right|^{-1} dt'$$

$$\left| \frac{dt}{d\tau}(b) \right|^{-1} \int w \left\{ v \left[\frac{dt}{d\tau}(b) \right]^{-1} \cdot [t(b) - t'] \right\} \cdot f(t') dt'$$

$$\left| \frac{dt}{d\tau}(b) \right|^{-1} F \left\{ v = v \cdot \left[\frac{dt}{d\tau}(b) \right]^{-1}, a = t(b) \right\}.$$