$$\mathcal{N}(x,0) = g(x) \Rightarrow \sum_{i=1}^{\infty} \gamma_{i}(o) \varphi_{i}(x) = g(x) \Rightarrow \int_{0}^{\infty} (\cdot) m(x) \varphi_{j}(x) dx$$

$$\Rightarrow \gamma_{j}(o) = \int_{0}^{\infty} m(x) g(x) \varphi_{j}(x) dx / j = j \cdot 2 \cdot \cdots$$
Similarly du $(x,0) = J_{i}(x) \Rightarrow \gamma_{j}(o) = \int_{0}^{\infty} m(x) J_{i}(x) dx / j = j \cdot 2 \cdot \cdots$

$$T(a_{i}, t_{0}) = \int_{0}^{\infty} \gamma_{i}(o) \cos(x) + \frac{\gamma_{i}(o)}{\omega_{i}} \sin(x) + \frac{1}{\omega_{i}} \int_{0}^{\infty} N_{i}(x) \sin(x) \cdot (t - x) dx - f(x)$$

$$\int_{0}^{\infty} f(x) \delta'(a - x) dx = f(a) \int_{0}^{\infty} \int_{0}^{\infty} f(x) \delta'(x - a) dx = -f(a) \quad (2)$$
Remark
$$\int_{0}^{\infty} f(x) \delta'(a - x) dx = f(a) \int_{0}^{\infty} \int_{0}^{\infty} f(x) \delta'(x - a) dx = -f(a) \quad (2)$$
Remark
$$\int_{0}^{\infty} f(x) \delta'(a - x) dx = f(a) \int_{0}^{\infty} \int_{0}^{\infty} f(x) \delta'(x - a) dx = -f(a)$$

$$\int_{0}^{\infty} f(x) \delta'(x) dx = f(x) \delta(x) \int_{0}^{\infty} \int_{0}^{\infty} f(x) \delta(x) dx = 0 = -f(a)$$

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$$\int_{0}^{\infty} f(x) \delta'(x) dx = f(x) \delta(x) \int_{0}^{\infty} \int_{0}^{\infty} f(x) dx = 0 = -f(a)$$

But
$$N_{\rho}(t) = \int_{0}^{L} F(x,t) \varphi_{\rho}(x) dx \Rightarrow$$

$$\Rightarrow N_{\rho}(t) = \int_{0}^{L} [-P_{i}(t) \delta(x-x_{i}) + M_{j}(t) \delta(x-x_{j})] \varphi_{\rho}(x) dx \Rightarrow$$

$$\Rightarrow N_{\rho}(t) = -P_{i}(t) \varphi_{\rho}(x_{i}) - M_{j}(t) \varphi_{\rho}(x_{j})$$

If $P_{i}(t)$ is applied If $M_{j}(t)$ is applied at a node of $\varphi_{\rho}(x)$ slope of $\varphi_{\rho}(x)$ then, this term this term there is equal to seen is equal to seen in equal to seen

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