

Werk

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37073 Göttingen

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Por lo tanto, para (37) obtendremos:

$$f(x) = \int_0^1 t_1(u) J_{2a}(2\sqrt{xu}) du + \int_1^\infty t_2(u) J_{2a}(2\sqrt{xu}) du,$$

donde $t_1(u)$ y $t_2(u)$ están dados en (34).

Tomando $n = 0$ y $q = 0$ en (12) y (13), tendremos:

$$\int_0^\infty H_{2p, 2m+1}^{m+1, p}(xu) f(u) du = \phi(x), \quad 0 < x < 1,$$

$$\text{y} \quad \int_0^\infty H_{2p+2, 2m+1}^{m+1, p}(xu) f(u) du = \psi(x), \quad x > 1.$$

Su solución por (37) será:

$$f(x) = \int_0^1 t_1(u) H_{2p, 2m}^{m, p}(xu) du + \int_1^\infty t_2(u) H_{2p, 2m}^{m, p}(xu) du$$

en donde $H_{2p, 2m}^{m, p}(x)$, es un núcleo simétrico de Fourier [4].

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*Facultad de Bioquímica, Química y Farmacia y
 Facultad de Ciencias Exactas y Tecnología.
 Universidad Nacional de Tucumán.
 Tucumán, Argentina, S. A.*

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