$$\begin{split} &\int_{0}^{\infty} p_{n,k}(t)t^{m} \, dt = \frac{(k+m)(k-m-2)!}{k!(n-1)!} \\ &B_{n}(f(t);x) \\ &C_{h}[0,\infty) \\ &B_{n}(f(t);x) = (n-1) \sum_{k=0}^{\infty} p_{n,k}(x) \int_{0}^{\infty} p_{n,k}(t) f \left(\frac{nt+\alpha}{n+\beta}\right) \, dt \\ &\alpha \leq \beta \\ &B_{n}(f(t);x) \\ &B_{n}(f(t);x) \\ &B_{n}(f(t);x) \\ &B_{n}(f(t);x) = \\ &(n-1) \sum_{k=0}^{\infty} p_{n,k}(x) \int_{0}^{\infty} p_{n,k}(t) f \left(\frac{nt+\alpha}{n+\beta}\right) \, dt \\ &+ bg) \left(\frac{nt+\alpha}{n+\beta}\right) \, dt \\ &\overline{(n-1)} \sum_{k=0}^{\infty} p_{n,k}(x) \left[a \int_{0}^{\infty} p_{n,k}(t) f \left(\frac{nt+\alpha}{n+\beta}\right) \, dt\right] \\ &= dn-1 \sum_{k=0}^{\infty} p_{n,k}(x) \left[\int_{0}^{\infty} p_{n,k}(t) g \left(\frac{nt+\alpha}{n+\beta}\right) \, dt\right] \\ &+ b \int_{0}^{\infty} p_{n,k}(x) \left[\int_{0}^{\infty} p_{n,k}(t) g \left(\frac{nt+\alpha}{n+\beta}\right) \, dt\right] \\ &= \overline{a}B_{n}(f(t);x) \\ &B_{n}(f(t);x) \\ &B_{n}(f(t);x) \\ &B_{n}(f(t);x) \geq 0 \iff f(t) \geq 0 \\ &\overline{b}_{n}(f(t);x) \geq 0 \\ &\Rightarrow (n-1) \sum_{k=0}^{\infty} p_{n,k}(x) \int_{0}^{\infty} p_{n,k}(t) f \left(\frac{nt+\alpha}{n+\beta}\right) \, dt \geq 0 \\ &\Rightarrow f(t) \geq 0 \\ &B_{n}(f(t);x) \geq$$