$\int_{0}^{+\infty} \frac{1-a^{2}x^{2}}{1+a^{2}x^{2}} \cdot \frac{\sinh(\frac{1}{x})}{x} dx = 0$  $t = \frac{1}{x}$   $dx = -\frac{dt}{t^2}$  $\int_{0}^{t^{20}} \frac{\sin t}{t} dt - \int_{0}^{t} \frac{\cos^{2} \alpha}{t^{2} + \alpha^{2}} \frac{\sin t}{t} dt$  $= -\left(\int_0^{+\infty} \frac{\sin t}{t} dt - 2\int_0^{+\infty} \frac{a^2}{t^2 + a^2} \cdot \frac{\sin(t)}{t}\right)$ 1/2 e-a/4  $\left(\frac{1}{2} - 2 \cdot \frac{3}{2} e^{-\alpha}\right) = \left(\frac{3}{2} e^{-\alpha} - \frac{3}{\alpha}\right)$ B(x, y)= \[ \frac{1}{4+t} \frac{1}{x+y} \]  $\int_{0}^{+\infty} \frac{\int x' dx}{1+x^{3}} = \left| x = t^{\frac{1}{3}} - 2/3 dt \right| = \int_{0}^{+\infty} \frac{6\int t}{3 \cdot 3 \int t^{2} (1+t)} = \frac{1}{3} \int_{0}^{+\infty} \frac{t^{2}}{1+t} dt$ B(x,y) = 17/x/17/y)  $f(t) = \begin{cases} \cos(2t) - 1 \\ 0 \end{cases}$  $F[f][t] = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} |t| e^{-i\xi t} dt = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} (\cos(2t) - 1) e^{-i\xi t} dt = -\frac{2}{\sqrt{2\pi}} \int_{-\infty}^{\infty} |t| \cos(2t) - 1 = -\frac{2}{\sqrt{2\pi}$  $= -\frac{2}{\sqrt{2x}} \int_{-\pi}^{\pi} \sin^2 t \cdot \cos \xi t dt = -\frac{2}{\sqrt{2x}} \cdot \left( -\frac{4 \sin(\pi \xi)}{\xi^3 - 4 \xi} \right) = \underbrace{\frac{4 \sqrt{2} \sin(\pi \xi)}{\sqrt{\pi} \cdot \xi \cdot \left( \xi^2 - 4 \right)}}_{\sqrt{\pi} \cdot \xi \cdot \left( \xi^2 - 4 \right)} \underbrace{\frac{1173 \cos x}{7 \operatorname{perposo}}}_{\sqrt{\eta} \operatorname{perposo}}$