$$F(z) = \frac{1}{(z-\lambda)(z-1)^2} \quad 0 \le |z-1| \le 1$$

$$\sum_{n=0}^{\infty} z^n = \frac{1}{1-z} \quad 0 \le |z| \le 1$$

$$\sum_{n=0}^{\infty} (z-1)^n = \frac{1}{1-(z-1)} = \frac{1}{1-z+1} = \frac{1}{\lambda-z}$$

$$\sum_{n=0}^{\infty} (-1)(z-1)^n = \frac{1}{z-2} \left(\frac{1}{(z-1)^2}\right)$$

$$= \frac{1}{(z-1)^2} \sum_{n=0}^{\infty} (-1)(z-1)^n = \sum_{n=0}^{\infty} \frac{(-1)(z-1)^n}{(z-1)^2}$$

$$= \sum_{n=0}^{\infty} (-1)(z-1)^n = \sum_{n=0}^{\infty} \frac{(-1)(z-1)^n}{(z-1)^2}$$

Por teorema de (auchy evalue la integral a lo largo del contorno

$$\int \frac{(0) + (1)^{2}}{(2-1)^{2}} (\frac{1}{2} + \frac{1}{4}) dz$$

$$\frac{(2-1)^{2} = 0}{(2-1)^{2} = 0}$$

$$\frac{(2-1)^{2} = 0}{(2-1)^{2} = 0}$$

$$\frac{(2-1)^{2} = 0}{(2-1)^{2}}$$

$$\frac{(2-1)^{2}}{(2-1)^{2}}$$

$$= \frac{(1+9)(-\sin(1)-2\cos(1))}{100}$$

$$= -\frac{10}{100} \sin(1) - 2\cos(1)$$

$$= -\frac{10}{100} \sin(1) - \frac{10}{100} \cos(1)$$

$$= -\frac{10}{100} \sin(1) - \frac{10}{100} \cos(1)$$

$$= -\frac{10}{100} \sin(1) + \frac{10}{100} \cos(1)$$

$$= -\frac{10}{100} \sin(1) + \frac{10}{100} \cos(1)$$

$$= -\frac{10}{100} \sin(1) + \frac{10}{100} \cos(1)$$

$$F(s) = \frac{1}{(1-is)^2}$$

$$f(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} e^{ist}$$

$$\int_{-\infty}^{\infty} e^{ist}$$

$$\int_{-\infty}^{\infty$$

$$\frac{10^{1/6}}{1+i} = \frac{16i}{1+i}$$

$$\frac{16i(1-i)}{(1+i)(1-i)} = \frac{16i-16i^2}{1+i^2} = \frac{16i+16}{1+i}$$

$$\frac{16i+16}{2} = (8+8i)^{1/6} = \frac{16i+16}{2}$$

$$\frac{16i+16}{2} = (8+8i)^{1/6} = \frac{16i+16}{2}$$

$$\frac{16i-16i^2}{1+i} = \frac{16i+16}{1+i}$$

$$\frac{16i-16i^2}{1+i} = \frac{16i-16i^2}{1+i}$$

$$\frac{16i-16i^2}{1+i} = \frac{16i+16}{1+i}$$

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$$\frac{16i-16i^2}{1+i}$$

$$\frac{16i-16i^2}{1+i} = \frac{16i-16i^2}{1+i}$$

$$\frac{16i-16i^$$