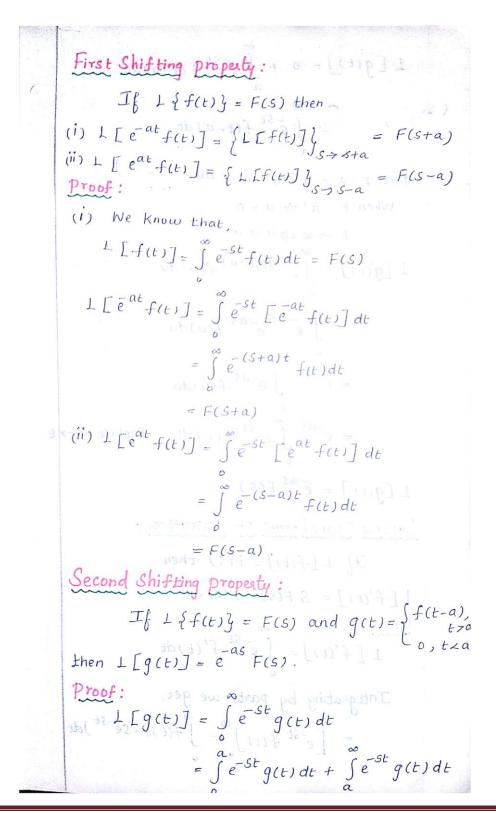




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Let
$$f(x) = e^x f(x) - e^x f(x) + s \int_0^x e^{-st} f(t) dt$$

$$= SF(s) - f(x) - f(x) + s \int_0^x e^{-st} f(t) dt$$

Let $f''(t) = s^x F(s) - s f(x) - f'(x)$

Let $f''(t) = s^x F(s) - s f(x) - f'(x)$

We know that,

$$f'(t) = s \int_0^x f(t) - f(x) - f'(x) + f''(x) + f''(x$$





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$$|f(t)| = \int_{S}^{L} [f(t)] \left\{ \frac{1}{s} g(t) = \int_{S}^{L} f(t) dt \right\} = \int_{S}^{L} [f(t)] \left\{ \frac{1}{s} g(t) = \int_{S}^{L} f(t) dt \right\} = \int_{S}^{L} [f(t)] dt$$

$$|f(t)| = \int_{S}^{L}$$





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