

(1)
$$F(s) = f(t) = \int_{0}^{\infty} e^{-st} f(t) dt$$

Let $u = at+b = u \in [5, +\infty]$, $t = \frac{u-b}{a}$

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Let $f(at+b) = \frac{1}{a} \int_{0}^{\infty} e^{-s \cdot \frac{u-b}{a}} f(u) du$

$$= \frac{e^{\frac{1}{2}s}}{a} \int_{0}^{\infty} e^{-\frac{s}{a}u} f(u) du$$

$$= \frac{e^{\frac{1}{2}s}}{a} \left[F(\frac{s}{a}) - \int_{0}^{b} e^{-\frac{s}{a}u} f(t) dt \right]$$

(b) $f(t) = \frac{1}{2} \int_{0}^{\infty} e^{-st} f(t) dt$

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