1.12 tes meldors

$$= + \left[e^{-2t} \right]_{\infty}^{0} - \left[1 \cdot \right] e^{-2t} dt$$

$$\frac{1}{-s}\int_{0}^{\infty} \frac{1}{s^{2}}e^{-st}\int_{0}^{\infty}$$

$$f(4) = \int_{\infty}^{\infty} 4^{3} e^{-3t} dt$$

$$\mathcal{L}(e^{3\xi+1}) = \frac{e}{S-3} = \frac{S-3}{S}$$

$$f(cost) = f(e^{it} + e^{-it})$$

$$=\frac{1}{1+2}+\frac{1}{1-2}$$

$$=\frac{1}{2}\left(\frac{2c}{2(41)}\right)=\frac{2}{2}$$

(3)

$$\int (\int \sinh t) dt = \int \int \frac{dt}{dt} dt$$

$$= \frac{1}{2} \left(\frac{1}{1-2} - \frac{1}{2+1} \right) \frac{2}{5}$$

$$= \begin{cases} e^{-St} dt = e^{-St} \end{cases}$$

$$=\frac{1}{5}\left[1-e^{-5}\right]$$

$$= \int_{1}^{2} e^{-2t} dt = \frac{-2}{e^{-2t}} \int_{2}^{1}$$

$$\frac{1}{5}\left[e^{5}-e^{25}\right]$$

$$= \frac{\{e^{-st}\}^{1}}{-s} - \frac{\{e^{-st}\}^{1}}{-s} = \frac{e^{-st}}{s} = \frac{e^{-st}}{s$$

$$= \frac{e^{-S}}{e^{-S}} - \frac{e^{-St}}{e^{-St}}$$

$$= \frac{-e^{-S}}{S} - \left[\frac{e^{-S}}{S^2} - \frac{1}{S^2}\right]$$

$$=\frac{1}{52}-\frac{e^{-2}}{52}-\frac{e^{-2}}{5}$$

$$=\frac{1}{52}(5-6^{-3}-56^{-5})$$
 570

$$= (1-t)e^{-st} + e^{-st}$$

$$= \frac{1}{2} + \frac{2^2}{5^2} - \frac{1}{5^2} = \frac{1}{5^2} \left(5 - 1 + 6^3 \right)$$

$$f(t(t)) = \frac{2315}{24} + \frac{25}{3}$$
 250

f(4)= 3+5/2 -4+2

$$\frac{1}{S^{2}} = \frac{1}{S^{2}}$$

$$f(t(4)) = \frac{25}{7} - \frac{2-3}{5}$$
 2>3

$$f(f(t)) = \frac{C(S|S)}{C(S|S)} - \frac{1}{1} SUD$$

$$f(f(t)) = \frac{z}{1} + \frac{z^{2}-2z}{2}$$

Corst= 5 cog f-1

$$= \frac{6}{54} + \frac{1}{5} + \frac{6}{52} + \frac{3}{52}$$

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

$$=\frac{5}{5(25-4)}+16$$

(25)
$$F(s) = \frac{1}{s} - \frac{2}{s^{s_1}s}$$

$$f-1(+cn) = t - \frac{c(s)}{2} \cdot t^{3/2}$$

$$= \frac{3.7.24}{5.15} + \frac{324}{5.15} = F - \frac{324}{8} + \frac{315}{5.15}$$

$$(29)$$
 $F(S) = \frac{5-31}{5^2}$ $f(4) = \frac{5}{2}$ single - 3 cosse

$$E(i) = \frac{4-15}{445} = 1 \text{ f(4)} = -\frac{5}{6} \text{ Sin pst} - 608 \text{ pst}$$

$$F(3) = \frac{2e^{-32}}{5} f(4) = 2u(4-3)$$