$$\int_{1}^{2+} \int_{1}^{2+} \int_{1}^{2+$$

=
$$2\{e^{2t} \operatorname{Senh} 3t\} - 2\{t^2e^{-4t}\} + 2\{e^{t} \cos 4t\}$$

= $2\{\operatorname{Senh} 3t\} - 2\{t^2\} - 2\{t^2\} - 3+4$

$$= \frac{3}{5^{2}-9} | 5+8-2 - \frac{2}{5^{3}} | 5+9+24 + \frac{5}{5^{2}+16} | 5+95-1$$

$$\frac{3}{(s-2)^2-q} - \frac{2}{(s+4)^3} + \frac{s-1}{(s-1)^2+16}$$