a transf de Laplace de F(s), mas substituímos "t" por "t-c" 1

$$\mathcal{L}^{-1}\{e^{-cs}F(s)\} = u_c(t)\,\overbrace{\mathcal{L}\{F(s)\}(t-c)}$$

retira-se e^{-cs} e escreve-se $u_c(t) = u(t-c)$

a) $\frac{e^{-2s}}{s} + \frac{6e^{-3s}}{s}$

$y(t) = u_2(t) + 6u_3(t)$,

onde

$u_2(t) = u(t-2)$

$u_3(t) = u(t-3)$

b) $e^{-3s}\left(\frac{1}{s^2} + \frac{5}{s^3}\right)$

$y(t) = u_3(t)\left[(t-3) + \frac{5}{2}(t-3)^2\right]$

c) $\frac{6}{s} + \frac{e^{-s}}{s^2+4}$

$y(t) = 6 + \frac{u_1(t)}{2}\,\mathrm{sen}(2(t-1))$

d) $\frac{e^{-5s}(s+1)}{(s+1)^2+16}$

$y(t) = u_5(t)\,e^{-(t-5)}\cos 4(t-5)$

e) $\frac{4e^{-2s}}{s-3} + \frac{e^{-5s}}{s+9}$

$y(t) = 4u_2(t)\,e^{3(t-2)} + u_5(t)\,e^{-9(t-5)}$

f) $\frac{e^{-10s}}{(s-3)^2}$

$y(t) = \frac{u_{10}(t)\,e^{3(t-10)}}{2}(t-10)$

g) $\frac{e^{-7s}}{s} + \frac{e^{-11s}}{(s-2)^3}$

$y(t) = u_7(t) + \frac{u_{11}(t)}{2}e^{2(t-11)}(t-11)^2$