

Séries e Equações Diferenciais

Lista 11

1. Encontre as Transformadas Inversas Pedidas:

a) $\mathcal{L}^{-1} \left\{ \frac{1}{s^3} \right\}$

b) $\mathcal{L}^{-1} \left\{ \frac{1}{s^4} \right\}$

c) $\mathcal{L}^{-1} \left\{ \frac{1}{s^2} - \frac{48}{s^5} \right\}$

d) $\mathcal{L}^{-1} \left\{ \frac{1}{s^2} - \frac{1}{s} + \frac{1}{s-2} \right\}$

e) $\mathcal{L}^{-1} \left\{ \left(\frac{2}{s} - \frac{1}{s^3} \right)^2 \right\}$

f) $\mathcal{L}^{-1} \left\{ \frac{(s+1)^3}{s^4} \right\}$

g) $\mathcal{L}^{-1} \left\{ \frac{1}{4s+1} \right\}$

h) $\mathcal{L}^{-1} \left\{ \frac{5}{s^2+49} \right\}$

i) $\mathcal{L}^{-1} \left\{ \frac{10s}{s^2+16} \right\}$