

1. Use the basic Laplace transforms and the Laplace transform properties given in Tables to determine the unilateral Laplace transform of the following signals :

(a) $x(t) = \frac{d}{dt} \{te^{-t}u(t)\}$

ans: $X(s) = \frac{5}{(s+1)^2}$

(b) $x(t) = tu(t) * \cos(2\pi)u(t)$

ans: $X(s) = \frac{1}{s(s^2+4\pi^2)}$

~~(c)~~ $x(t) = u(t-1) * e^{-2t}u(t-1)$

~~(d)~~ $x(t) = t \frac{d}{dt} \{e^{-t} \cos(t)u(t)\}$

2. Use the basic Laplace transforms and the Laplace transform properties given in Tables to determine the time signals corresponding to the following unilateral Laplace transforms:

(a) $X(s) = \left(\frac{1}{s+2}\right)\left(\frac{1}{s+3}\right)$

ans: $(e^{-2t} - e^{-3t})u(t)$

~~(b)~~ $X(s) = e^{-2s} \frac{d}{ds} \left(\frac{1}{(s+1)^2}\right)$

~~(c)~~ $X(s) = \frac{1}{(2s+1)^2 + 4}$

3. Use the method of partial fractions to find the time signals corresponding to the following unilateral Laplace transforms :

(a) $X(s) = \frac{s+3}{s^2+3s+2}$

ans: $(2e^{-t} - e^{-2t})u(t)$

(b) $X(s) = \frac{5s+4}{s^3+3s^2+2s}$

ans: $(2 - 3e^{-2t} + e^{-t})u(t)$

(c) $X(s) = \frac{s^2-3}{(s+2)(s^2+2s+1)}$

ans: $(e^{-2t} - 2te^{-t})u(t)$

4. Use Laplace transform to determine the transfer function and impulse response of the system.

(a) $\frac{d}{dt} y(t) + 10y(t) = 10x(t)$

ans: $h(t) = 10e^{-10t}u(t)$

(b) $\frac{d^2}{dt^2} y(t) - \frac{d}{dt} y(t) - 2y(t) = -4x(t) + 5 \frac{d}{dt} x(t)$

ans: $h(t) = (3e^{-t} + 2e^{2t})u(t)$

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R Barnett



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