

(Material from earlier sections are on previous reviews)

6.3. Step Functions

1. Find the Laplace transform of the following functions.

(a) $f(t) = (t + 3)u_7(t)$

(b) $f(t) = t^2 u_3(t)$

(c) $f(t) = \begin{cases} 1, & 0 \leq t < 2 \\ t^2 - 4t + 4, & t \geq 2 \end{cases}$

(d) $f(t) = \begin{cases} t, & 0 \leq t < 3 \\ 5, & t \geq 3 \end{cases}$

(e) $f(t) = \begin{cases} 0, & t < \pi \\ t - \pi, & \pi \leq t < 2\pi \\ 0, & t \geq 2\pi \end{cases}$

(f) $f(t) = \begin{cases} \cos(\pi t), & t < 4 \\ 0, & t \geq 4 \end{cases}$

(g) $f(t) = \begin{cases} t, & 0 \leq t < 1 \\ e^t, & t \geq 1 \end{cases}$

2. Find the inverse Laplace transform:

(a) $F(s) = \frac{e^{-3s}}{s-2}$

(b) $F(s) = \frac{1+e^{-3s}}{s^2+6}$

(c) $F(s) = \frac{3}{s} + \frac{4}{s^2} + \frac{5s}{s^2+9} - e^{-2s} \left(\frac{3}{s} + \frac{4}{s^2} + \frac{5s}{s^2+9} \right)$

6.4. Solutions of IVP with Discontinuous Forcing Functions

3. Suppose that the function $y(t)$ satisfies the DE $y'' - 2y' - 8y = f(t)$, with $f(t) = \begin{cases} \sin(\pi t), & 0 \leq t < 1 \\ 0, & t \geq 1 \end{cases}$ and initial values $y(0) = -1$, $y'(0) = 3$. Find the Laplace transform of $y(t)$.

4. Consider the following IVP: $y'' + 16y = 2 - 2u_3(t)$, $y(0) = 0$, $y'(0) = 0$.

(a) Find the Laplace transform of the solution $y(t)$.

(b) Find the solution $y(t)$ by inverting the transform.

6.5. Impulse Functions

5. A mass $m = 1$ is attached to a spring with constant $k = 5$ and damping constant $c = 2$. At the instant $t = \pi$, the mass is struck with a hammer, providing an impulse $p = 10$. Also, $x(0) = 0$ and $x'(0) = 0$.

a) Write the differential equation governing the motion of the mass.

b) Find the Laplace transform of the solution $x(t)$.

c) Apply the inverse Laplace transform to find the solution.

6. Consider the following IVP: $y'' + 4y = 5\delta(t - 3)$, $y(0) = 1$, $y'(0) = 2$.

(a) Find the Laplace transform of the solution $y(t)$.

(b) Find the solution $y(t)$ by inverting the transform.

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