

(c) In the previous part, we showed that the system is linear when $y(t) = 0$. In order to show that the system is not time-invariant, consider an input of the form $x_1(t) = e^{2t}u_0(t)$. From part (a), we know that the corresponding output will be

$$y_1(t) = \frac{1}{2}e^{2t} + Ae^{-2t}.$$

Using the fact that $y_1(1) = 0$, we get for $t = 0$

$$y_1(0) = \frac{1}{2}e^0 + Ae^{-0} = \frac{1}{2}e^{-0(0-1)}.$$

Now consider an input of the form $x_2(t) = x_1(t - 1/2)$. Note that $y_2(0) = 0$. Clearly, $y_2(0) \neq y_1(1) = 1/2$ or $y_2(0) = (1/2)e^{0} = 1/2$. Therefore, $y_2(0) \neq y_1(0 - 1/2)$ for all t . This implies that the system is not time-invariant.

(d) A proof which is very similar to the proof for linearity used in part (c) may be used here. We may show that the system is not time-invariant by using the method outlined in part (c).

2.25. (a) Since the system is linear, the response $y_1(t) = 0$ for all t .

(b) Now let us find the output $y_2(t)$ when the input is $x_2(t)$. The particular solution is of the form

$$y_2(t) = Y, \quad t > -1.$$

Substituting in eq. (P2.23-1), we get

$$2Y = 1.$$

Now, including the homogeneous solution which is of the form $y_h(t) = Ae^{-2t}$, we get the overall solution:

$$y_2(t) = Ae^{-2t} + \frac{1}{2}, \quad t > -1.$$

Since $y_2(0) = 0$, we get

$$y_2(t) = -\frac{1}{2}e^{-2t} + \frac{1}{2}, \quad t > -1. \quad (E2.25-1)$$

For $t < -1$, we note that $x_2(t) = 0$. Thus the particular solution is zero in this range and

$$y_2(t) = Ae^{-2t}, \quad t < -1. \quad (E2.25-2)$$

Since the two pieces of the solution for $y_2(t)$ in eqs. (E2.25-1) and (E2.25-2) must match at $t = -1$, we can determine A from the equation

$$\frac{1}{2} - \frac{1}{2}e^2 = Ae^2$$

which yields

$$y_2(t) = \left(\frac{1}{2} - \frac{1}{2}e^2\right)e^{-2(t+1)}, \quad t < -1,$$

□

2.27. Let us consider two inputs

$$x_1(t) = 0, \quad \text{for all } t$$

and

$$x_2(t) = e^t u_0(t) = u(t - 1).$$

Since the system is linear, the response $y_1(t) = 0$ for all t .

Now let us find the output $y_2(t)$ when the input is $x_2(t)$. The particular solution is of the form

$$y_2(t) = Ye^t, \quad 0 < t < 1.$$

Substituting in eq. (P2.23-1), we get

$$2Y = 1.$$

Now, including the homogeneous solution which is of the form $y_h(t) = Ae^{-2t}$, we get the overall solution:

$$y_2(t) = Ae^{-2t} + \frac{1}{2}e^t, \quad 0 < t < 1.$$

Assuming final rest, we have $y_2(1) = 0$. Using this we get $A = -e^3/2$. Therefore,

$$y_2(t) = -\frac{1}{2}e^{-2t+3} + \frac{1}{2}e^t, \quad 0 < t < 1. \quad (E2.27-1)$$

For $t < 0$, we note that $x_2(t) = 0$. Thus the particular solution is zero in this range and

$$y_2(t) = Ae^{-2t}, \quad t < 0. \quad (E2.27-2)$$

Since the two pieces of the solution for $y_2(t)$ in eqs. (E2.27-1) and (E2.27-2) must match at $t = 0$, we can determine A from the equation

$$\frac{1}{2} - \frac{1}{2}e^3 = A$$

which yields

$$y_2(t) = \left(\frac{1}{2} - \frac{1}{2}e^3\right)e^{-2t}, \quad t < 0.$$

Now note that since $x_1(t) = x_2(t)$ for $t < 0$, it must be true that for a causal system $y_1(t) = y_2(t)$ for $t < 0$. However, the results obtained above show that this is not true. Therefore, the system is not causal.

2.28. The block diagrams are as shown in Figure E2.28.

2.29. The block diagrams are as shown in Figure E2.29.

2.40. (a) Note that

$$y(t) = \int_{-\infty}^t e^{-2(t-\tau)} x(\tau - 2) d\tau = \int_{-\infty}^t e^{-2(t-\tau+2)} x(\tau) d\tau.$$

Therefore,

$$A(s) = e^{-2(s+2)}u_0(s) = 2$$

□

Now note that since $x_1(t) = x_2(t)$ for $t < -1$, it must be true that for a causal system $y_1(t) = y_2(t)$ for $t < -1$. However, the results of parts (a) and (b) show that this is not true. Therefore, the system is not causal.

2.30. (a) Consider an input $x_1[n]$ such that $x_1[n] = 0$ for $n < n_0$. The corresponding output will be

$$y_1[n] = \frac{1}{2}x_1[n - 1] + x_1[n], \quad y_1[n] = 0 \text{ for } n < n_0. \quad (E2.30-1)$$

Also, consider another input $x_2[n]$ such that $x_2[n] = 0$ for $n < n_0$. The corresponding output will be

$$y_2[n] = \frac{1}{2}x_2[n - 1] + x_2[n], \quad y_2[n] = 0 \text{ for } n < n_0. \quad (E2.30-2)$$

Adding eq. (E2.30-1) by α and eq. (E2.30-2) by β and summing, we get

$$\alpha y_1[n] + \beta y_2[n] = \frac{\alpha}{2}x_1[n - 1] + \frac{\beta}{2}x_2[n - 1] + \alpha x_1[n] + \beta x_2[n].$$

By inspection, it is clear that the output is $y[n] = \alpha y_1[n] + \beta y_2[n]$ when the input is $x_1[n] = \alpha x_1[n] + \beta x_2[n]$. Furthermore, $y_1[0] = 0 = y_1[1] + y_2[0]$. Therefore, the system is linear.

(b) Let us consider two inputs

$$x_1[n] = 0, \quad \text{for all } n,$$

and

$$x_2[n] = \begin{cases} 0, & n < -1 \\ 1, & n \geq -1 \end{cases}.$$

Since the system is linear, the response to $x_1[n]$ or $y_1[n] = 0$ for all n . Now let us find the output $y_2[n]$ when the input is $x_2[n]$. Since $y_2[0] = 0$,

$$y_2[1] = (1/2)0 + 0 = 0, \quad y_2[2] = (1/2)0 + 0 = 0.$$

Therefore, $y_2[n] = 0$ for $n \geq 0$. Now, for $n < 0$, note that

$$y_2[n] = (1/2)y_2[n - 1] + x_2[n].$$

Therefore, $y_2[-1] = -2$. Proceeding similarly, we get $y_2[-2] = -4$, $y_2[-3] = -6$, and so on. Therefore, $y_2[n] = -(1/2)^{n+1}u_0(-n - 1)$.

Now note that since $x_1[n] = x_2[n]$ for $n < 0$, it must be true that for a causal system $y_1[n] = y_2[n]$ for $n < 0$. However, the results obtained above show that this is not true. Therefore, the system is not causal.

□



Figure E2.28



Figure E2.29

(b) We have

$$\begin{aligned} y(t) &= \int_{-\infty}^t h(t-\tau)x(\tau) d\tau \\ &= \int_{-\infty}^t e^{-2(t-\tau)}u_0(t-\tau+1)x(\tau) d\tau = \int_{-\infty}^t e^{-2(t-\tau)}u_0(t-\tau+1)x(\tau) d\tau \end{aligned}$$

$h(\tau)$ and $x(t - \tau)$ are as shown in the figure below.

Using this figure, we may write

$$y(t) = \begin{cases} \int_{-\infty}^t e^{-2(t-\tau)}u_0(t-\tau+1)x(\tau) d\tau = 1 - e^{-2(t+1)}, & t < 0 \\ \int_{-\infty}^t e^{-2(t-\tau)}u_0(t-\tau+1)x(\tau) d\tau = e^{-2(t+1)}(1 - e^{-2}), & 0 < t < 1 \\ \int_{-\infty}^t e^{-2(t-\tau)}u_0(t-\tau+1)x(\tau) d\tau = e^{-2(t+1)}(1 - e^{-2}), & t > 1 \end{cases}$$

2.41. (a) We may write

$$\begin{aligned} y[n] &= x[n] - \alpha x[n - 1] \\ &= e^n u_0[n] - \alpha e^{n-1} u_0[n - 1] \\ &= A[n]. \end{aligned}$$

□

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