

(a) We have

$$X(j\omega) = \frac{1}{4 + j\omega} = \frac{1}{(4 + j\omega)^2}.$$

Therefore,

$$Y(j\omega) = X(j\omega)H(j\omega) = \frac{1}{(4 + j\omega)(2 + j\omega)}.$$

Finding the partial fraction expansion of $Y(j\omega)$ and taking the inverse Fourier transform,

$$y(t) = \frac{1}{2}e^{-2t}u(t) - \frac{1}{2}e^{-4t}u(t).$$

4.35. (a) From the given information,

$$|H(j\omega)| = \frac{\sqrt{9\omega^2 + 25}}{\sqrt{25\omega^2 + 16}} = 1.$$

Also,

$$\angle H(j\omega) = -\tan^{-1}\frac{3}{4}\omega + \tan^{-1}\frac{5}{4}\omega = -2\tan^{-1}\frac{3}{5}\omega.$$

Also,

$$H(j\omega) = -1 + \frac{2s}{s + j\omega} \quad \text{so} \quad H(0) = -H(0) + 2e^{-j\pi/2}u(0).$$

(b) If $\omega = 1$, we have

$$|H(j\omega)| = 1, \quad \angle H(j\omega) = -2\tan^{-1}\frac{3}{5}.$$

Therefore,

$$y(t) = \cos\left(\frac{1}{\sqrt{2}}t\right) - \frac{3}{5}t - \cos\left(t - \frac{\pi}{5}\right) + \cos\left(\sqrt{2}t - \frac{2\pi}{5}\right).$$

4.36. (a) The frequency response is

$$H(j\omega) = \frac{Y(j\omega)}{X(j\omega)} = \frac{2(3 + j\omega)}{(4 + j\omega)(2 + j\omega)}.$$

(b) Finding the partial fraction expansion of $H(j\omega)$ in part (a) and taking its inverse Fourier transform, we obtain

$$h(t) = \frac{2}{3}e^{-3t} + e^{-2t}u(t).$$

(c) We have

$$\frac{Y(j\omega)}{X(j\omega)} = \frac{(3 + j\omega)}{(4 + j\omega)(2 + j\omega)}.$$

Cross-multiplying and taking the inverse Fourier transform, we obtain

$$\frac{d^2y(t)}{dt^2} + 3\frac{dy(t)}{dt} = 3y(t) - 2\frac{dx(t)}{dt} + 3x(t).$$

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4.38. (a) Applying a frequency shift to the analysis equation, we have

$$X(j\omega - \omega_0) = \int_{-\infty}^{\infty} x(t)e^{-j(\omega - \omega_0)t}dt = \int_{-\infty}^{\infty} x(t)e^{j\omega_0 t}e^{-j\omega t}dt = \mathcal{F}\{x(t)e^{j\omega_0 t}\}.$$

(b) We have

$$x(t) = e^{j\omega_0 t} \int_{-\infty}^{\infty} H(j\omega) = 2\pi\delta(\omega - \omega_0).$$

Also,

$$\begin{aligned} x(t)\omega_0(t) \int_{-\infty}^{\infty} &= \frac{1}{2\pi} [X(j\omega) * H(j\omega)] \\ &= X(j\omega) * \delta(\omega - \omega_0) \\ &= X(j(\omega - \omega_0)). \end{aligned}$$

4.39. (a) From the Fourier transform analysis equation, we have

$$G(j\omega) = \int_{-\infty}^{\infty} g(t)e^{-j\omega t}dt = \int_{-\infty}^{\infty} X(j\omega)e^{-j\omega t}dt. \quad (34.39-1)$$

Also from the Fourier transform synthesis equation, we have

$$x(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} X(j\omega)e^{j\omega t}d\omega.$$

Switching the variables t and ω , we have

$$x(\omega) = \frac{1}{2\pi} \int_{-\infty}^{\infty} X(j\omega)e^{j\omega t}d\omega.$$

We may also write this equation as

$$2\pi x(-\omega) = \int_{-\infty}^{\infty} X(j\omega)e^{-j\omega t}d\omega.$$

Substituting this equation in eq. (34.39-1), we obtain

$$G(j\omega) = 2\pi x(-\omega).$$

(b) If in part (a) we have $x(t) = \delta(t + B)$, then we would have $g(t) = X(j\omega) = e^{jB\omega}$ and $G(j\omega) = 2\pi x(-\omega) = 2\pi\delta(-\omega + B) = 2\pi\delta(\omega - B)$.

4.40. When $n = 1$, $x_1(t) = e^{-j\omega_0 t}u(t)$ and $X_1(j\omega) = 1/(4 + j\omega)$.
When $n = 2$, $x_2(t) = te^{-j\omega_0 t}u(t)$ and $X_2(j\omega) = 1/(4 + j\omega)^2$.

Now, let us assume that the given statement is true when $n = m$, that is,

$$x_m(t) = \frac{t^{m-1}}{(m-1)!}e^{-j\omega_0 t}u(t) \xrightarrow{\mathcal{F}} X_m(j\omega) = \frac{1}{(1 + j\omega)^m}.$$

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4.37. (a) Note that

$$x(t) = x_1(t) + x_2(t),$$

where

$$x_1(t) = \begin{cases} \frac{1}{6}, & |t| < \frac{1}{2} \\ 0, & \text{otherwise} \end{cases}$$

Also, the Fourier transform $X_1(j\omega)$ of $x_1(t)$ is

$$X_1(j\omega) = 2\frac{\sin(\omega/2)}{\omega}.$$

Using the convolution property we have

$$X(j\omega) = X_1(j\omega)X_2(j\omega) = \left[2\frac{\sin(\omega/2)}{\omega}\right]^2.$$

(b) The signal $x(t)$ is as shown in Figure 34.37.



(c) One possible choice of $x(t)$ is as shown in Figure 34.37.

(d) Note that

$$X(j\omega) = X_1(j\omega)\sum_{n=0}^{\infty} A_n(j\omega) = A_0\sum_{n=0}^{\infty} G_n(j\omega) = G_0\sum_{n=0}^{\infty} A_n(j\omega) = A_0\sum_{n=0}^{\infty} G_n(j\omega).$$

This may also be written as

$$X(j\omega) = \sum_{n=0}^{\infty} A_n(j\omega)X_1(j\omega) = A_0\sum_{n=0}^{\infty} G_n(j\omega) = G_0\sum_{n=0}^{\infty} A_n(j\omega)X_1(j\omega) = A_0\sum_{n=0}^{\infty} G_n(j\omega).$$

Clearly, this is possible only if

$$G_0X_1(\pi/2) = X_1(\pi/2).$$

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For $n = m + 1$ we may use the differentiation in frequency property to write,

$$x_{m+1}(t) = \frac{1}{2\pi}x_m(t) \xrightarrow{\mathcal{F}} X_{m+1}(j\omega) = \frac{1}{2\pi}j\frac{dX_m(j\omega)}{d\omega} = \frac{1}{(1 + j\omega)^{m+1}}.$$

This shows that if we assume that the given statement is true for $n = m$, then it is true for $n = m + 1$. Since we also showed that the given statement is true for $n = 1$, we may argue that it is true for $n = 2 + 1 = 3$, $n = 3 + 1 = 4$, and so on. Therefore, the given statement is true for any n .

4.41. (a) We have

$$\begin{aligned} g(t) &= \frac{1}{2\pi} \int_{-\infty}^{\infty} \frac{1}{2\pi} [X(j\omega) * Y(j\omega)]e^{j\omega t}d\omega \\ &= \frac{1}{2\pi} \int_{-\infty}^{\infty} \frac{1}{2\pi} \left[\int_{-\infty}^{\infty} X(j\omega)Y(j\omega - \omega')d\omega' \right]e^{j\omega t}d\omega \\ &= \frac{1}{2\pi} \int_{-\infty}^{\infty} X(j\omega) \left[\frac{1}{2\pi} \int_{-\infty}^{\infty} Y(j\omega - \omega')e^{j\omega' t}d\omega' \right]d\omega \end{aligned}$$

(b) Using the frequency shift property of the Fourier transform we have

$$\frac{1}{2\pi} \int_{-\infty}^{\infty} Y(j\omega - \omega')e^{j\omega' t}d\omega' = e^{j\omega' t}y(t).$$

(c) Combining the results of parts (a) and (b),

$$\begin{aligned} g(t) &= \frac{1}{2\pi} \int_{-\infty}^{\infty} X(j\omega)e^{j\omega t}y(t)d\omega \\ &= y(t)\frac{1}{2\pi} \int_{-\infty}^{\infty} X(j\omega)e^{j\omega t}d\omega \\ &= y(t)x(t). \end{aligned}$$

4.42. $x(t)$ is a periodic signal with Fourier series coefficients a_n . The fundamental frequency of $x(t)$ is $\omega_0 = 100$ rad/sec. From Section 4.2 we know that the Fourier transform $X(j\omega)$ of $x(t)$ is

$$X(j\omega) = \sum_{n=-\infty}^{\infty} 2\pi a_n \delta(\omega - 100n).$$

(a) Since

$$y(t) = x(t)\cos(\omega_0 t) \xrightarrow{\mathcal{F}} Y(j\omega) = \frac{1}{2}[X(j\omega - \omega_0) + X(j\omega + \omega_0)],$$

we have

$$\begin{aligned} Y(j\omega) &= \frac{1}{2} \sum_{n=-\infty}^{\infty} [a_n \delta(\omega - 100n - \omega_0) + a_n \delta(\omega - 100n + \omega_0)] \\ &= \frac{1}{2} \sum_{n=-\infty}^{\infty} [a_{n-1} \delta(\omega + 100n - \omega_0) + a_n \delta(\omega - 100n + \omega_0)] \quad (34.42-1) \end{aligned}$$

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