

1.51. (a) We have

$$e^{i\theta} = \cos \theta + j \sin \theta, \quad (E1.51-1)$$

and

$$e^{-i\theta} = \cos \theta - j \sin \theta. \quad (E1.51-2)$$

Substituting eqs. (E1.51-1) and (E1.51-2) we get

$$\cos \theta = \frac{1}{2}(e^{i\theta} + e^{-i\theta}).$$

(b) Subtracting eq. (E1.51-2) from (E1.51-1) we get

$$\sin \theta = \frac{j}{2}(e^{i\theta} - e^{-i\theta}).$$

(c) We now have $e^{i\theta} e^{j\theta} = e^{i\theta + j\theta}$. Therefore,

$$\begin{aligned} \cos \theta + j \sin \theta + j \cos \theta - \sin \theta &= (\cos \theta \cos \theta - \sin \theta \sin \theta) + j(\sin \theta \cos \theta + \cos \theta \sin \theta) \end{aligned} \quad (E1.51-3)$$

Putting $\theta = \theta$ in eq. (E1.51-3), we get

$$\cos^2 \theta + \sin^2 \theta = \cos^2 \theta - \sin^2 \theta.$$

Putting $\theta = -\theta$ in eq. (E1.51-3), we get

$$1 = \cos^2 \theta + \sin^2 \theta.$$

Adding the two above equations and simplifying,

$$\cos^2 \theta = \frac{1}{2}(1 + \cos 2\theta).$$

(d) Repeating the real parts in eq. (E1.51-3) with arguments $(\theta + \phi)$ and $(\theta - \phi)$ we get

$$\cos(\theta + \phi) = \cos \theta \cos \phi - \sin \theta \sin \phi$$

and

$$\cos(\theta - \phi) = \cos \theta \cos \phi + \sin \theta \sin \phi.$$

Subtracting the two above equations, we obtain

$$\sin \theta \sin \phi = \frac{1}{2}[\cos(\theta - \phi) - \cos(\theta + \phi)].$$

(e) Repeating imaginary parts in eq. (E1.51-3), we get

$$\sin(\theta + \phi) = \sin \theta \cos \phi + \cos \theta \sin \phi.$$

□

(a) Since $x_1 + 3x_2 > 0$ and $-1 \leq \cos(\theta_1 - \theta_2) \leq 1$,

$$\begin{aligned} |z_1| - |z_2| &= |z_1| \sqrt{1 - \cos(\theta_1 - \theta_2)} \\ &= |z_1| \sqrt{1 - \cos \theta} \\ &= |z_1| \sqrt{2 \sin^2 \frac{\theta}{2}} \\ &= |z_1| \sqrt{2} |\sin \frac{\theta}{2}| \end{aligned}$$

and

$$|z_1| + |z_2| \sqrt{1 - \cos \theta} = |z_1| \sqrt{2} + |z_1| \sqrt{2} |\sin \frac{\theta}{2}| \geq |z_1| + |z_2|.$$

1.52. (a) For $a = 1$, it is fairly obvious that

$$\sum_{n=0}^{\infty} a^n = N.$$

For $a \neq 1$, we may write

$$(1 - a) \sum_{n=0}^{\infty} a^n = \sum_{n=0}^{\infty} a^n - \sum_{n=1}^{\infty} a^n = 1 - a^N.$$

Therefore,

$$\sum_{n=0}^{\infty} a^n = \frac{1 - a^N}{1 - a}.$$

(b) For $|a| < 1$,

$$\lim_{N \rightarrow \infty} a^N = 0.$$

Therefore, from the result of the previous part,

$$\lim_{N \rightarrow \infty} \sum_{n=0}^N a^n = \sum_{n=0}^{\infty} a^n = \frac{1}{1 - a}.$$

(c) Differentiating both sides of the result of part (b) w.r.t. a , we get

$$\begin{aligned} \frac{d}{da} \left(\sum_{n=0}^{\infty} a^n \right) &= \frac{d}{da} \left(\frac{1}{1 - a} \right) \\ \sum_{n=0}^{\infty} n a^{n-1} &= \frac{1}{(1 - a)^2} \end{aligned}$$

(d) We may write

$$\sum_{n=0}^{\infty} n a^n = a^2 \sum_{n=2}^{\infty} n a^{n-2} = \frac{a^2}{1 - a} \quad \text{for } |a| < 1.$$

1.53. (a) The desired sum is

$$\sum_{n=0}^{\infty} j^n e^{j\theta} = \frac{j e^{j\theta}}{1 - e^{j\theta}} = 1 + j.$$

□

1.53. (a) $e^{j\theta} = \cos \theta + j \sin \theta$ and $e^{-j\theta} = \cos \theta - j \sin \theta$

(b) $e^{j\theta} = \cos \theta + j \sin \theta$ and $e^{-j\theta} = \cos \theta - j \sin \theta$

(c) $e + e^{-j} = \cos + j \sin + \cos - j \sin = 2 \cos = 2 \cos(1)$

(d) $e - e^{-j} = \cos + j \sin - \cos + j \sin = 2j \sin = 2j \sin(1)$

(e) $(e_1 + e_2)^2 = (2 \cos \theta + j \sin \theta + 2 \cos \theta - j \sin \theta)^2 = 4 \cos^2 \theta + j^2 \sin^2 \theta = 4 \cos^2 \theta - \sin^2 \theta = 4 \cos^2 \theta - 1 + \sin^2 \theta = 3 \cos^2 \theta + \sin^2 \theta$

(f) Consider $\cos n\theta$ for $n > 0$.

$$\cos n\theta = \frac{1}{2}(e^{jn\theta} + e^{-jn\theta}) = \frac{1}{2}(e^{j(n-1)\theta} + e^{-j(n-1)\theta}) \cos \theta + \frac{j}{2}(e^{j(n-1)\theta} - e^{-j(n-1)\theta}) \sin \theta$$

For $n = 1$, $\cos \theta = \cos \theta$. Therefore,

$$\cos n\theta = \frac{1}{2}(e^{j(n-1)\theta} + e^{-j(n-1)\theta}) \cos \theta + \frac{j}{2}(e^{j(n-1)\theta} - e^{-j(n-1)\theta}) \sin \theta + \cos \theta \cos \theta$$

(g) For $\cos \theta \neq 0$,

$$\left(\frac{\cos \theta}{\cos \theta}\right)^n = \frac{\cos n\theta}{\cos^n \theta} = \frac{\cos \theta \cos \theta^{n-1}}{\cos^n \theta} = \frac{\cos \theta}{\cos \theta}$$

(h) From (g), we get

$$\cos \left(\frac{\cos \theta}{\cos \theta}\right) = \frac{1}{2} \left[\left(\frac{\cos \theta}{\cos \theta}\right) + \left(\frac{\cos \theta}{\cos \theta}\right) \right]$$

Using (g) on this, we get

$$\cos \left(\frac{\cos \theta}{\cos \theta}\right) = \frac{1}{2} \left[\left(\frac{\cos \theta}{\cos \theta}\right) + \left(\frac{\cos \theta}{\cos \theta}\right) \right] = \frac{1}{2} \left[\frac{2 \cos \theta \cos \theta^{n-1}}{\cos^n \theta} \right].$$

1.54. (a) $e^{j\theta} e^{-j\theta} = e^{j\theta} e^{j\theta} = e^{j\theta + j\theta} = e^{j2\theta}$

(b) Let $x_1 = x_2 = 1$ and $\theta_1 = \theta_2 = 0$. Then,

$$\begin{aligned} |z_1 z_2| &= |z_1| |z_2| = 1 \times 1 = 1 = 2 \cos(\theta_1) = 2 \cos(0) \\ &= 2 = |z_1 + z_2| = 2 \cos(\theta_1) = 2 \cos(0) \end{aligned}$$

(c) $|z_1| = |e^{j\theta}| = 1 = |e^{j2\theta}| = |z_2|$

(d) $|z_1 z_2| = |e^{j\theta} e^{j\theta}| = |e^{j2\theta}| = |z_1 + z_2| = |e^{j\theta} + e^{j\theta}| = 2|e^{j\theta}| = 2|z_1|$

(e) Since $a = a + j\theta$, $|a| = \sqrt{a^2 + \theta^2}$. By the triangle inequality,

$$|a - (-j)| = |a| \leq \sqrt{a^2 + \theta^2} = |a|$$

and

$$|a + (-j)| = |a| \leq \sqrt{a^2 + \theta^2} = |a|.$$

(f) $|z_1 z_2| = |z_1| |z_2| = 2 \cos(\theta_1) \cos(\theta_2) = 2 \cos(\theta_1) \cos(\theta_2) = 2 \cos(\theta_1) = 2|z_1| = 2|z_2|$

□

(a) The desired sum is

$$\sum_{n=0}^{\infty} j^n e^{j\theta} = \frac{j e^{j\theta}}{1 - e^{j\theta}} = \frac{j}{1 - \cos \theta} = -\frac{j}{2} (1 + j).$$

(b) The desired sum is

$$\sum_{n=0}^{\infty} \cos n\theta e^{j\theta} = \frac{1}{1 - e^{j\theta} - e^{-j\theta}} = \frac{1}{2} + j \frac{1}{2}.$$

(c) The desired sum is

$$\sum_{n=0}^{\infty} \cos n\theta e^{j\theta} = \cos \theta e^{j\theta} \sum_{n=0}^{\infty} \cos n\theta e^{j\theta} = -\frac{j}{2} \left[\frac{1}{2} + j \frac{1}{2} \right].$$

(d) The desired sum is

$$\sum_{n=0}^{\infty} \cos(n\theta) = \frac{1}{2} \sum_{n=0}^{\infty} e^{jn\theta} + \frac{1}{2} \sum_{n=0}^{\infty} e^{-jn\theta} = \frac{1}{2}(1 + 2) + \frac{1}{2}(1 - 2) = 1.$$

(e) The desired sum is

$$\begin{aligned} \sum_{n=0}^{\infty} \cos n\theta \cos(n\theta) &= \frac{1}{2} \sum_{n=0}^{\infty} \cos n\theta e^{jn\theta} + \frac{1}{2} \sum_{n=0}^{\infty} \cos n\theta e^{-jn\theta} \\ &= \frac{1}{2} + j \frac{1}{2} + \frac{1}{2} - j \frac{1}{2} = 1 \end{aligned}$$

1.56. (a) The desired integral is

$$\int_0^{\infty} e^{-\theta} d\theta = \frac{e^{-\theta}}{-1} \Big|_0^{\infty} = -1.$$

(b) The desired integral is

$$\int_0^{\infty} e^{-\theta} \cos \theta d\theta = \frac{e^{-\theta} (-\sin \theta)}{-1} \Big|_0^{\infty} - \int_0^{\infty} (-e^{-\theta} \cos \theta) d\theta = 0 - \frac{\pi}{2}$$

(c) The desired integral is

$$\int_0^{\infty} e^{-\theta} \sin \theta d\theta = \frac{e^{-\theta} (-\cos \theta)}{-1} \Big|_0^{\infty} - \int_0^{\infty} (-e^{-\theta} \sin \theta) d\theta = -\frac{\pi}{2}$$

(d) The desired integral is

$$\int_0^{\infty} e^{-\theta} \cos \theta d\theta = \frac{e^{-\theta} \sin \theta}{-1} \Big|_0^{\infty} = \frac{1}{2} + j = \frac{1 + j}{2}.$$

□

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