

1.51. (a) We have

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

and

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

Summing 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

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

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

$$\begin{aligned} \cos \theta + j \sin \theta + j \cos \theta + \theta &= j(\cos \theta \sin \theta + \sin \theta \cos \theta) \\ &= j(2 \sin \theta \cos \theta = \sin 2\theta). \end{aligned} \quad (E1.51-3)$$

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

$$\cos \phi + j \sin \phi + j \cos \phi + \phi = \sin 2\phi.$$

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

$$1 + \cos^2 \phi + \sin^2 \phi.$$

Adding the two above equations and simplifying,

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

(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 $r_1 > 0, r_2 > 0$ and $-1 \leq \cos(\theta_1 - \theta_2) \leq 1$,

$$\begin{aligned} |z_1 - z_2|^2 &= |r_1 e^{j\theta_1} - r_2 e^{j\theta_2}|^2 \\ &= r_1^2 + r_2^2 - 2r_1 r_2 \cos(\theta_1 - \theta_2) \\ &\geq r_1^2 + r_2^2 - 2r_1 r_2 \cos(\theta_1 - \theta_2) \\ &= (r_1 - r_2)^2 \end{aligned}$$

and

$$|z_1| + |z_2|^2 = r_1^2 + r_2^2 + 2r_1 r_2 \geq (r_1 + r_2)^2.$$

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

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

Therefore,

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

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

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

Therefore, from the result of the previous part,

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

(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

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

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) $e^{j\theta} + e^{-j\theta} = \cos \theta + j \sin \theta + \cos \theta - j \sin \theta = 2 \cos \theta$

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

(e) $(r_1 + r_2)^2 = (R_1 \cos \theta + R_2 \cos \theta + j R_1 \sin \theta + j R_2 \sin \theta)^2 = (R_1 + R_2)^2 \cos^2 \theta - (R_1 - R_2)^2 \sin^2 \theta + j 2(R_1 R_2) \sin 2\theta$

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

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

For $n < 0$, $n = -(n-1)$. Therefore,

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

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

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

(h) From (g), we get

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

Using (g) in this, we get

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

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

(b) Let $x_1 = r_1 e^{j\theta}$ and $x_2 = r_2 e^{j\theta}$. Then,

$$\begin{aligned} x_1 x_2 &= r_1 r_2 e^{j\theta} = r_1 r_2 (\cos \theta + j \sin \theta) \\ &= r_2 (r_1 \cos \theta + j r_1 \sin \theta) = r_2 \cos \theta + j r_2 r_1 \sin \theta \end{aligned}$$

(c) $|z| = |e^{j\theta}| = 1$ and $|e^{j\theta} e^{j\theta}| = |e^{j2\theta}| = 1$

(d) $|z_1 z_2| = |r_1 e^{j\theta_1} r_2 e^{j\theta_2}| = |r_1 r_2| = |r_1| |r_2| = |z_1| |z_2|$

(e) Since $a = a + j0$, $|a| = \sqrt{a^2 + 0^2}$. By the triangle inequality,

$$|a + j| = |a| \leq \sqrt{a^2 + 1^2} = |a + j|$$

and

$$|a + j| = |a| \leq \sqrt{a^2 + 1^2} = |a + j|$$

(f) $|z_1 z_2| = |r_1 r_2| = |r_1| |r_2| = |z_1| |z_2| = |r_1| |r_2| \cos(\theta_1 - \theta_2) \leq |r_1| |r_2| = |z_1| |z_2|$.

□

(a) The desired sum is

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

(b) The desired sum is

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

(c) The desired sum is

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

(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

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

□

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