

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  $e^{i\theta} e^{-i\theta} = e^{i\theta} e^{i\theta}$ . Therefore,

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

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

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

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  $r_1 > 0, r_2 > 0$  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

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

1.53. (a) The desired sum is

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

□

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

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

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

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

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

(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

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

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

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

$$\begin{aligned} x_1 x_2 &= r_1 r_2 e^{j\theta} = r_1 r_2 e^{j\theta} = 2R_1 R_2 \cos \theta + j 2R_1 R_2 \sin \theta \\ &= r_2^2 + r_1^2 = 2R_1^2 \cos^2 \theta + 2R_1^2 \sin^2 \theta \end{aligned}$$

(c)  $|z| = |e^{j\theta}| = 1 = |e^{j2\theta}| = |z^2|$

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

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

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

and

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

(f)  $\sin \theta = r_2 e^{j\theta} = 2R_1 R_2 \cos \theta + j 2R_1 R_2 \sin \theta = R_2 (2R_1 \cos \theta + j 2R_1 \sin \theta)$

□

(a) The desired sum is

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

(b) The desired sum is

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

(c) The desired sum is

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

(d) The desired sum is

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

(e) The desired sum is

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

1.56. (a) The desired integral is

$$\int_0^{\infty} e^{-\alpha x} dx = \frac{e^{-\alpha x}}{-\alpha} \Big|_0^{\infty} = \frac{1}{\alpha}$$

(b) The desired integral is

$$\int_0^{\infty} e^{-\alpha x} dx = \frac{e^{-\alpha x}}{-\alpha} \Big|_0^{\infty} = -\frac{1}{\alpha} (0 - 1) = \frac{1}{\alpha}$$

(c) The desired integral is

$$\int_0^{\infty} e^{-\alpha x} dx = \frac{e^{-\alpha x}}{-\alpha} \Big|_0^{\infty} = -\frac{1}{\alpha} (0 - 1) = \frac{1}{\alpha}$$

(d) The desired integral is

$$\int_0^{\infty} e^{-\alpha x} dx = \frac{e^{-\alpha x}}{-\alpha} \Big|_0^{\infty} = -\frac{1}{\alpha} (0 - 1) = \frac{1}{\alpha}$$

□

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