

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,

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

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

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

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

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

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

$$\begin{aligned} |z_1 - z_2|^2 &= |x_1 - x_2|^2 - 2x_1x_2 \\ &= x_1^2 + x_2^2 - 2x_1x_2 \cos(\theta_1 - \theta_2) \\ &= (x_1 - x_2)^2 \end{aligned}$$

and

$$|z_1 + z_2|^2 = x_1^2 + x_2^2 + 2x_1x_2 \geq (x_1 + x_2)^2.$$

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,

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

(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

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

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

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

(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)  $(x_1 + x_2)^2 = x_1^2 + x_2^2 + 2x_1x_2 = x_1^2 + x_2^2 + 2 \cos \theta x_1x_2 = x_1^2 + x_2^2$

(f) Consider  $\cos \theta e^{j\theta}$  for  $\theta > 0$ .

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

For  $\theta < 0$ ,  $\cos \theta = \cos |\theta|$ . Therefore,

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

(g) For  $\theta = 0$ ,

$$\left( \frac{1}{2} \right)^2 = \frac{1}{4} = \cos^2 0 + \sin^2 0 = \frac{1}{4} + \frac{1}{4} = \frac{1}{2}$$

(h) From (c), we get

$$N = \left( \frac{1}{2} \right)^2 = \frac{1}{4} \left[ \left( \frac{1}{2} \right)^2 + \left( \frac{1}{2} \right)^2 \right].$$

Using (d) in this, we get

$$N = \left( \frac{1}{2} \right)^2 = \frac{1}{4} \left[ \left( \frac{1}{2} \right)^2 + \left( \frac{1}{2} \right)^2 \right] = \frac{1}{4} \left[ \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} \right].$$

1.54. (a)  $(x_1 + x_2)^2 = x_1^2 + x_2^2 + 2x_1x_2 = x_1^2 + x_2^2 + 2x_1x_2 \cos \theta$

(b) Let  $x_1 = x_2 = x$  and  $\theta = \pi/3$ . Then,

$$\begin{aligned} x_1^2 + x_2^2 + 2x_1x_2 \cos \theta &= x^2 + x^2 + 2x^2 \cos \left( \frac{\pi}{3} \right) = 2x^2 + 2x^2 \cos \left( \frac{\pi}{3} \right) \\ &= x^2 + x^2 = 2x^2 = 2x^2 \cos \left( \frac{\pi}{3} \right) \end{aligned}$$

(c)  $|z_1| = |x_1 e^{j\theta_1}| = x_1 = |x_2 e^{j\theta_2}| = x_2$

(d)  $|z_1 z_2| = |x_1 x_2 e^{j(\theta_1 + \theta_2)}| = |x_1 x_2| = |x_1| |x_2| = |z_1| |z_2|$

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

$$|a + (-a)| = 0 \leq \sqrt{a^2 + 0^2} + |a|$$

and

$$|a + (-a)| = 0 \leq \sqrt{a^2 + 0^2} - |a|.$$

(f)  $|z_1 z_2| = |x_1 x_2| = |2x_1 x_2 \cos \theta| = 2|x_1 x_2 \cos \theta|$ ,  $|z_1| |z_2| = 2|x_1 x_2| = 2|x_1 x_2|$ .

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(a) The desired sum is

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

(b) The desired sum is

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

(c) The desired sum is

$$\sum_{n=0}^{\infty} (1 + j)^n e^{j\theta n} = (1 + j)^2 e^{j\theta} \sum_{n=0}^{\infty} (1 + j)^{n-2} e^{j\theta(n-2)} = -\frac{1}{4} \left[ \frac{1}{2} + j \frac{1}{2} \right].$$

(d) The desired sum is

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

(e) The desired sum is

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

1.56. (a) The desired integral is

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

(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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**H Kauffman**



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