

4. Chapter 4: Signal Representation using Fourier Series

Problem 4.1

4.1a Using Definition 4.1 of the DTFS, the periodic function $x[n]$ can be represented as $x[n] = \sum_{k=-\infty}^{\infty} x_k e^{jkn}$ with the coefficients x_k for $k = 1, 2$, and 3, given by

$$x_1 = \frac{1}{N} \int_{-N/2}^{N/2} x[n] e^{-jkn} dn = \frac{1}{N} \int_{-N/2}^{N/2} 1 e^{-jkn} dn = \frac{1}{N} \left[\frac{e^{-jkn}}{-jk} \right]_{-N/2}^{N/2} = \frac{1}{N} \frac{e^{-jkN/2} - e^{jkN/2}}{-jk}$$

$$x_2 = \frac{1}{N} \int_{-N/2}^{N/2} x[n] e^{-j2kn} dn = \frac{1}{N} \int_{-N/2}^{N/2} 1 e^{-j2kn} dn = \frac{1}{N} \left[\frac{e^{-j2kn}}{-j2k} \right]_{-N/2}^{N/2} = \frac{1}{N} \frac{e^{-j2kN/2} - e^{j2kN/2}}{-j2k} \\ = \frac{1}{N} \frac{e^{-jkN} - e^{jkN}}{-j2k}$$

$$\text{and } x_3 = \frac{1}{N} \int_{-N/2}^{N/2} x[n] e^{-j3kn} dn = \frac{1}{N} \int_{-N/2}^{N/2} 1 e^{-j3kn} dn = \frac{1}{N} \left[\frac{e^{-j3kn}}{-j3k} \right]_{-N/2}^{N/2} = \frac{1}{N} \frac{e^{-j3kN/2} - e^{j3kN/2}}{-j3k}$$

In other words, $x_1 = -\frac{1}{N} \frac{e^{-jkN/2} - e^{jkN/2}}{jk}$, which can also be given by the expression

4.1b By inspection, $x_1 = -\frac{1}{N} \frac{e^{-jkN/2} - e^{jkN/2}}{jk}$ can be obtained by substituting the coefficients x_k in $x[n] = \sum_{k=-\infty}^{\infty} x_k e^{jkn}$.

4.1c Using Definition 4.1 of the DTFS, the periodic function $x[n]$ can be represented as $x[n] = \sum_{k=-\infty}^{\infty} x_k e^{jkn}$ with the coefficients x_k for $k = 1, 2$, and 3, given by

$$x_1 = \frac{1}{N} \int_{-N/2}^{N/2} x[n] e^{-jkn} dn = \frac{1}{N} \int_{-N/2}^{N/2} 1 e^{-jkn} dn = \frac{1}{N} \left[\frac{e^{-jkn}}{-jk} \right]_{-N/2}^{N/2} = \frac{1}{N} \frac{e^{-jkN/2} - e^{jkN/2}}{-jk}$$

$$x_2 = \frac{1}{N} \int_{-N/2}^{N/2} x[n] e^{-j2kn} dn = \frac{1}{N} \int_{-N/2}^{N/2} 1 e^{-j2kn} dn = \frac{1}{N} \left[\frac{e^{-j2kn}}{-j2k} \right]_{-N/2}^{N/2} = \frac{1}{N} \frac{e^{-j2kN/2} - e^{j2kN/2}}{-j2k}$$

$$\text{and } x_3 = \frac{1}{N} \int_{-N/2}^{N/2} x[n] e^{-j3kn} dn = \frac{1}{N} \int_{-N/2}^{N/2} 1 e^{-j3kn} dn = \frac{1}{N} \left[\frac{e^{-j3kn}}{-j3k} \right]_{-N/2}^{N/2} = \frac{1}{N} \frac{e^{-j3kN/2} - e^{j3kN/2}}{-j3k}$$

In other words, $x_1 = -\frac{1}{N} \frac{e^{-jkN/2} - e^{jkN/2}}{jk}$, which can also be given by the expression

■

Problem 4.2

Computing the integral

$$\int_{-N/2}^{N/2} x[n] e^{-jkn} dn = \int_{-N/2}^{N/2} e^{-jkn} dn = \left[\frac{e^{-jkn}}{-jk} \right]_{-N/2}^{N/2}$$

Show that this has yields the integral to be used with respect to n in Problem 4.1.

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I. Ravi Kumar



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