EXERCISE C.6: Use integration by parts to show that

$$\int te^{-j\omega_0kt}dt = e^{-j\omega_0kt} \left(\frac{j\omega_0kt+1}{\omega_0^2k^2} \right)$$

Then, starting from (C.18), derive the formula (C.20) for the Fourier series coefficients of the triangular wave.

McClellan, Schafer, and Yoder, DSP First, 2e, ISBN 0-13-065562-7.
Prentice Hall, Upper Saddle River, NJ 07458. ©2016 Pearson Education, Inc.

