
(a) Find the "DC" value $a_{0}$ and the other Fourier coefficients $a_{k}$ for $k \neq 0$ in the Fourier series representation of $x(t)$.
(b) Sketch the waveform of the signal $y(t)=2 x\left(t-T_{0} / 2\right)$ and use the results of Problem 4.4 to write down the Fourier series coefficients $b_{0}$ and $b_{k}$ for $k \neq 0$ for the periodic signal $y(t)$ without evaluating any integrals. Note: You will use this result in Section 4 of Lab \#3.

