

Problem 3.6

(a) The Fundamental Frequency, $\omega_0 = \gcd(3.6\pi, 8.4\pi) = 1.2\pi$ rad/s

(b) The fundamental period $T_0 = 1/f_0 = 1/0.6 = 5/3$ s

(c) DC value of this signal = -7

(d) Fourier coefficients and their values :

k	a_k
-7	$3e^{-j\pi/4}$
-3	$4e^{j\pi/3}$
0	$7e^{j\pi}$
3	$4e^{-j\pi/3}$
7	$3e^{j\pi/4}$