

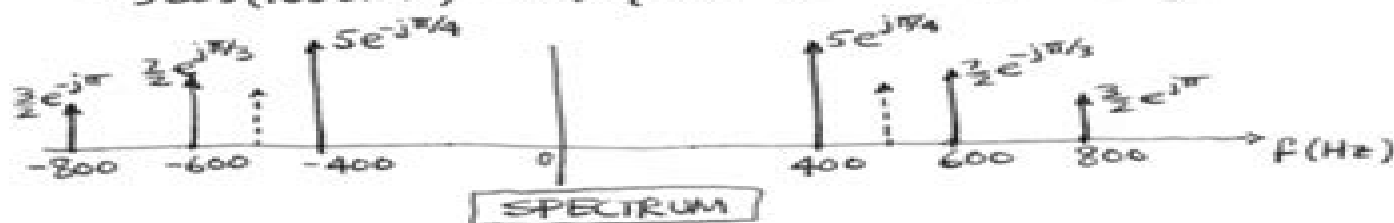
PROBLEM 3.1:

(a) There are 3 components

$$10 \cos(800\pi t + \pi/4) = \text{Re}\{10 e^{j\pi/4} e^{j800\pi t}\} \quad \text{freq} = 400 \text{ Hz}$$

$$7 \cos(1200\pi t - \pi/3) = \text{Re}\{7 e^{-j\pi/3} e^{j1200\pi t}\} \quad \text{freq} = 600 \text{ Hz}$$

$$-3 \cos(1600\pi t) = \text{Re}\{3 e^{j\pi} e^{j1600\pi t}\} \quad \text{freq} = 800 \text{ Hz}$$



(b) $x(t)$ is periodic because there is a fundamental frequency $f = 200 \text{ Hz}$ that divides all 3 freqs.

The period is the fundamental period = $1/200 \text{ sec}$

(c) $5 \cos(1000\pi t + \pi/2) = \text{Re}\{5 e^{j\pi/2} e^{j1000\pi t}\} \quad \text{freq} = 500 \text{ Hz}$

The spectrum will have two additional lines at $f = -500 \text{ Hz}$ and $f = 500 \text{ Hz}$

← $\frac{5}{2} e^{-j\pi/2}$ ← component is $\frac{5}{2} e^{j\pi/2}$

The dotted lines in the sketch above show where these two lines will be.

Yes, $y(t)$ is periodic. The fundamental frequency is now $f_0 = 100 \text{ Hz}$ because it has to divide into 500 Hz as well as $400, 600$ and 800 .

The period is now $1/100 \text{ sec}$.

Signal Processing First Solutions Manual James McClellan

M Walker



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Number Theory in Digital Signal Processing James H. McClellan, Charles M. Rader, 1979 Solutions Manual [for]
DSP First James H. McClellan, Ronald W. Schafer, Mark A. Yoder, 1997 American Book Publishing Record ,1998 DSP
First James H. McClellan, 1997 **Forthcoming Books** Rose Arny, 2003 **The Mathematica Journal** ,1990
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British Library, 1983 *Choice* ,1979 Dissertation Abstracts International ,1994 *Signal Processing First* James H.
McClellan, Ronald W. Schafer, Mark A. Yoder, 2003 Designed and written by experienced and well respected authors this
hands on multi media package provides a motivating introduction to fundamental concepts specifically discrete time systems
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,1997-12-31 Army-Navy-Air Force Register and Defense Times ,1919 **Subject Guide to Books in Print** ,1993
The Journal of the Armed Forces ,1885 The Cultivator & Country Gentleman ,1885

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