

**PROBLEM 3.1:**



(a) There are 3 components

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

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

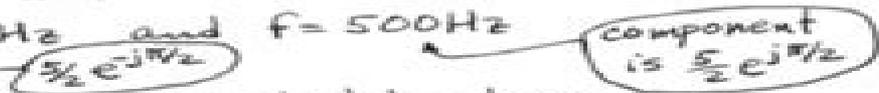
$$-3 \cos(1600\pi t) = \text{Re}\{3 e^{j\pi} e^{j1600\pi t}\} \quad \text{freq} = 800 \text{ Hz}$$



(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  $f = 500 \text{ Hz}$



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 Mcclellan Solutions Manual

**Camilla Rothe**



**Signal Processing First Mcclellan Solutions Manual:**

## Whispering the Strategies of Language: An Mental Journey through **Signal Processing First Mcclellan Solutions Manual**

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