

PROBLEM 3.1:



(a) There are 3 components

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

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

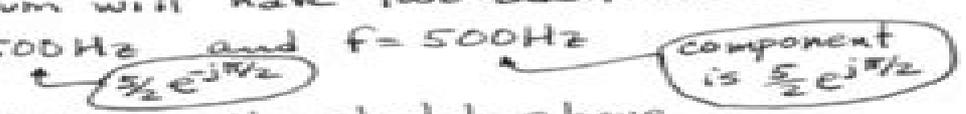
$$-3 \cos(1600\pi t) = \text{Re}\{3 e^{j\pi} e^{j1600\pi t}\} \quad \text{freq} = 800 \text{ Hz}$$



(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 $1/100 \text{ sec}$.

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Xiang Xie



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Digital Signal Processing Alan V. Oppenheim, Ronald W. Schafer, Harlan Hersey, Syed Hamid Nawab, 1976 **Solutions Manual, Digital Signal Processing** William D. Stanley, Ronald W. Schafer, 1975 **Solutions Manual [of] Digital Signal Processing** Saroja Srinidhi, John G. Proakis, Dimitris G. Manolakis, 1996 A significant revision of a best selling text for the introductory digital signal processing course This book presents the fundamentals of discrete time signals systems and modern digital processing and applications for students in electrical engineering computer engineering and computer science The book is suitable for either a one semester or a two semester undergraduate level course in discrete systems and digital signal processing It is also intended for use in a one semester first year graduate level course in digital signal processing *Signal Processing First* James H. McClellan, Ronald W. Schafer, Mark A. Yoder, 2003 CD ROM contains Demonstrations Problem solutions Digital Signal Processing Richard A. Roberts, Clifford T. Mullis, 1987-01 **Solutions Manual for Digital Signal Processing with Examples in Matlab** Samuel D. Stearns, 2002-10 *A Course in Digital Signal Processing* Boaz Porat, 1996-11 Fundamentals of Digital Signal Processing Ludeman, 1986-05 Foundations of Digital Signal Processing and Data Analysis James A. Cadzow, 1987 *Discrete-time Signal Processing* A.W.M. Van den Enden, N.A.M. Verhoeckx, 1989 Digital Signal Processing First, Global Edition James H. McClellan, Ronald W. Schafer, Mark Yoder, 2016-07-26 For introductory courses freshman and sophomore courses in Digital Signal Processing and Signals and Systems Text may be used before the student has taken a course in circuits DSP First and its accompanying digital assets are the result of more than 20 years of work that originated from and was guided by the premise that signal processing is the best starting point for the study of electrical and computer engineering The DSP First approach introduces the use of mathematics as the language for thinking about engineering problems lays the groundwork for subsequent courses and gives students hands on experiences with MATLAB The 2nd Edition features three new chapters on the Fourier Series Discrete Time Fourier Transform and the The Discrete Fourier Transform as well as updated labs visual demos an update to the existing chapters and hundreds of new homework problems and solutions The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed **System Analysis and Signal Processing** Philip Dembigh, 1997-07-15 **Signals and Systems** Ramamurthy Mani, Alan V. Oppenheim, Alan S. Willsky, Syed Hamid Nawab, 1997 More than half of the 600 problems in the second edition of Signals Systems are new while the remainder are the same as in the first edition This manual contains solutions to the new problems as well as updated solutions for the problems from the first edition Pref

Solutions Manual to Accompany Signal Processing James V. Candy, 1988 **Signal Processing Systems, Solutions Manual** N. Kalouptsidis, 1999-02-16 An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department *Solutions Manual for Digital Signal Processing* Chi-Tsong Chen, Professor Department of Electrical Engineering Chi-Tsong Chen, 2000-12 The Solutions Manual for Digital Signal Processing is a gratis item to be given to instructors who have adopted Digital Signal Processing by Chi Tsong Chen This manual contains complete solutions prepared by the author to all of the exercises in the text

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