Student Name:

UIN:

Q1:

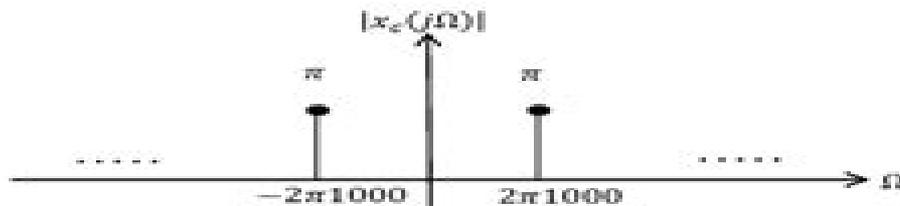Let $x_a(t) = \cos(2\pi 1000 t)$. This signal is sampled with $\omega_s = 2\pi 8000$ and we have

$x[n] = x_a(nT_s), n = 0,1, \dots, 1023$ and $T_s = \frac{\omega_s}{2\pi} = \frac{1}{8000}$ sec.

a) Plot $X_a(j\Omega)$, which is the CTFT of $x_a(t)$.   **(10 pts.)**

b) Approximately plot the $N = 1024$ point DFT magnitude $|X[k]|$ where
$k = 0,1, \dots, 1023$.   **(50 pts.)**

Clearly determine the peak locations of $|X[k]|$. Peak magnitude values are not important.

<u>Solution:</u>

$$x[n] = x_a(nT_s) = \cos(2\pi 1000 n T_s) = \cos\left(2\pi 1000 n \frac{1}{8000}\right) = \cos\left(\frac{\pi n}{4}\right)$$

$f_s = 8k\ Hz$

So that $1k\ Hz$ is mapped to $\omega = \frac{\pi}{4}$ and $-1k\ Hz$ is mapped to $\omega = -\frac{\pi}{4}$.

Digital Signal Processing Midterm 1 Solution

RC Schank

Digital Signal Processing Midterm 1 Solution:

Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide (CCNP Collaboration Exam 300-085 CAPPS) Chris Olsen,2015-12-22 Now fully updated for the new Cisco CAPPS 300 085 exam Implementing Cisco Collaboration Applications CAPPS Foundation Learning Guide is your Cisco authorized learning tool for CCNP Collaboration preparation Part of the Cisco Press Foundation Learning Series it teaches advanced skills for designing deploying configuring and troubleshooting Cisco Collaboration and Unified Communications applications devices and networks Author Chris Olsen shows how to effectively use Cisco Unity Connection Cisco Unity Express Cisco Instant Message and Presence Cisco TelePresence Video Communication Server and Cisco TelePresence Management Suite in production environments He begins by introducing the server platforms and overlays that are the basis for all Cisco Unity Connection design and integration Next he presents in depth coverage of a wide range of essential tasks from user configuration to voicemail redundancy configuring Cisco Jabber Mobile to provisioning Cisco Prime Collaboration Each chapter opens with a list of topics that clearly identifies its focus Each chapter ends with a summary of key concepts for quick study as well as review questions to assess and reinforce your understanding Throughout configuration examples and sample verification outputs illustrate critical issues in network operation and troubleshooting Whether you are preparing for the CCNP Collaboration certification exams or you are just interested in learning about how to deploy and operate Cisco collaboration applications you will find this book to be an invaluable resource Shows how to integrate Cisco Unity Connection with Cisco Unified Communications Manager or other PBXs Covers configuring Cisco Unity Connection users templates service classes distribution lists security LDAP dial plans and call management Walks through Unified Messaging single Inbox configuration Shows how to design integrate and configure feature rich branch office messaging solutions with Cisco Unity Express Explains Cisco Unified IM and Presence components design integration deployment and feature configuration Covers Cisco Jabber and Cisco Jabber Mobile configuration Guides you through deploying Cisco Collaboration Systems Applications with Cisco Prime Collaboration Introduces Cisco TelePresence Management Suite Cisco TMS capabilities and scheduling options This book is in the Foundation Learning Guide Series These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams **Designing for Cisco Internetwork Solutions (DESGN) (Authorized CCDA Self-Study Guide) (Exam 640-863)** Diane Teare,2007-10-12 Authorized Self Study Guide Designing for Cisco Internetwork Solutions DESGN Second Edition Foundation learning for CCDA exam 640 863 Designing for Cisco Internetwork Solutions DESGN Second Edition is a Cisco authorized self paced learning tool for CCDA foundation learning This book provides you with the knowledge needed to design enterprise networks By reading this book you will gain a thorough understanding of designing routed and switched network infrastructures and services within a modular architecture In Designing for Cisco Internetwork

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