

Registration no:

--	--	--	--	--	--	--	--	--	--

Total Number of Pages: 2

B.Tech
PCBM4302

5th Semester Regular / Back Examination 2016-17

SIGNALS AND SYSTEMS

BRANCH: AEIE, BIOTECH, ECE, EIE, ETC

Time: 3 Hours

Max Marks: 70

Q.CODE: Y289

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

- Q1** **Answer the following questions:** **(2 x 10)**
- a) State whether the following discrete time system is static or dynamic where $y(n) = \log_{10}|x(n)|$
 - b) State whether the following system is BIBO stable or not where $y(n) = x(n) - x(-n-1) + x(n-1)$
 - c) Prove that $a_0 = 0$ and $a_n = 0$ (where a_0 and a_n represents trigonometric Fourier Series Coefficients) if $x(t)$ exhibits odd symmetry.
 - d) Find the Fourier transform of A (constant).
 - e) Find the Z transform of $x^*(n)$.
 - f) Determine the energy and power of a d.t. unit step signal.
 - g) Find the DFT of $\delta(n)$.
 - h) Find the DFT of a purely real and even signal $x(n)$.
 - i) Distinguish between FIR and IIR systems.
 - j) Prove that autocorrelation at zero lag represents energy of a discrete time signal $x(n)$.
- Q2** Define autocorrelation and cross correlation. Show that autocorrelation is an even function of lag 'l' and it is maximum at zero lag. **(2+8)**
- Q3** a) Prove that the Parseval's relation in the Z domain **(5)**
- $$\sum_{n=-\infty}^{\infty} x_1(n)x_2^*(n) = \frac{1}{2\pi j} \int_{\gamma} X_1(z)X_2^*\left(\frac{1}{z^*}\right)z^{-1}dz$$
- b) Find the linear convolution between $x_1(n) * x_2(n)$ where **(5)**
- $$x_1(n) = \{1, \frac{2}{7}, 3, 4\} \text{ and } x_2(n) = \{-1, 0, \frac{3}{7}, 2\} \text{ using graphical method.}$$

Nlogic Systems Question Papers 22

LL Leslie



Nlogic Systems Question Papers 22:

This is likewise one of the factors by obtaining the soft documents of this **Nlogic Systems Question Papers 22** by online. You might not require more become old to spend to go to the book start as competently as search for them. In some cases, you likewise attain not discover the pronouncement Nlogic Systems Question Papers 22 that you are looking for. It will enormously squander the time.

However below, afterward you visit this web page, it will be fittingly enormously easy to acquire as capably as download lead Nlogic Systems Question Papers 22

It will not agree to many mature as we run by before. You can reach it while comport yourself something else at house and even in your workplace. suitably easy! So, are you question? Just exercise just what we pay for under as skillfully as evaluation **Nlogic Systems Question Papers 22** what you afterward to read!

https://crm.avenza.com/results/publication/index.jsp/origine_du_nom_de_famille_eschbach_oeuvres_courtes.pdf

Table of Contents Nlogic Systems Question Papers 22

1. Understanding the eBook Nlogic Systems Question Papers 22
 - The Rise of Digital Reading Nlogic Systems Question Papers 22
 - Advantages of eBooks Over Traditional Books
2. Identifying Nlogic Systems Question Papers 22
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nlogic Systems Question Papers 22
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nlogic Systems Question Papers 22

- Personalized Recommendations
- Nlogic Systems Question Papers 22 User Reviews and Ratings
- Nlogic Systems Question Papers 22 and Bestseller Lists
- 5. Accessing Nlogic Systems Question Papers 22 Free and Paid eBooks
 - Nlogic Systems Question Papers 22 Public Domain eBooks
 - Nlogic Systems Question Papers 22 eBook Subscription Services
 - Nlogic Systems Question Papers 22 Budget-Friendly Options
- 6. Navigating Nlogic Systems Question Papers 22 eBook Formats
 - ePub, PDF, MOBI, and More
 - Nlogic Systems Question Papers 22 Compatibility with Devices
 - Nlogic Systems Question Papers 22 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nlogic Systems Question Papers 22
 - Highlighting and Note-Taking Nlogic Systems Question Papers 22
 - Interactive Elements Nlogic Systems Question Papers 22
- 8. Staying Engaged with Nlogic Systems Question Papers 22
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nlogic Systems Question Papers 22
- 9. Balancing eBooks and Physical Books Nlogic Systems Question Papers 22
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nlogic Systems Question Papers 22
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nlogic Systems Question Papers 22
 - Setting Reading Goals Nlogic Systems Question Papers 22
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nlogic Systems Question Papers 22

- Fact-Checking eBook Content of Nlogic Systems Question Papers 22
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Nlogic Systems Question Papers 22 Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Nlogic Systems Question Papers 22 PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze.

This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Nlogic Systems Question Papers 22 PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Nlogic Systems Question Papers 22 free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About Nlogic Systems Question Papers 22 Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Nlogic Systems Question Papers 22 is one of the best book in our library for free trial. We provide copy of Nlogic Systems Question Papers 22 in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Nlogic Systems Question Papers 22. Where to download Nlogic Systems Question Papers 22 online for free? Are you looking for Nlogic Systems Question Papers

22 PDF? This is definitely going to save you time and cash in something you should think about.

Find Nlogic Systems Question Papers 22 :

origine du nom de famille eschbach oeuvres courtes

origine du nom de famille drochon oeuvres courtes

origine du nom de famille cadet oeuvres courtes

origine du nom de famille janody oeuvres courtes

origine du nom de famille branca oeuvres courtes

origine du nom de famille freville oeuvres courtes

~~origine du nom de famille couffin oeuvres courtes~~

origine du nom de famille billod oeuvres courtes

~~origine du nom de famille gobillot oeuvres courtes~~

original year 3 20optional sats

origine du nom de famille lancchedilon oeuvres courtes

origine du nom de famille barcelo oeuvres courtes

origine du nom de famille compagnet oeuvres courtes

origine du nom de famille golfier oeuvres courtes

origine du nom de famille bellet oeuvres courtes

Nlogic Systems Question Papers 22 :

unit 9 vocabulary from latin and greek roots book iii - Jun 19 2023

web study flashcards on unit 9 vocabulary from latin and greek roots book iii at cram com quickly memorize the terms phrases and much more cram com makes it easy to get the grade you want

vocabulary from latin and greek roots level x quizlet - Oct 23 2023

web find step by step solutions and answers to vocabulary from latin and greek roots level x 9781580492065 as well as thousands of textbooks so you can move forward with confidence

latin greek roots unit 9 answer key download only jira trellist - Aug 09 2022

web nov 10 2023 latin greek roots unit 9 answer key 2019 04 17 3 22 latin greek roots unit 9 answer key word and phrase histories build interesthumorous visual mnemonics reinforce recall book five is recommended for 11th grade this is a student

classroom edition tests and answer keys are available through the publisher but are only sold to schools and teachers

level ix vocabularyroots.com - Aug 21 2023

web vocabulary from latin and greek roots level vii level viii level ix level x level xi level xii

vocabulary from latin and greek a study of word families quizlet - Sep 22 2023

web our resource for vocabulary from latin and greek a study of word families level ix includes answers to chapter exercises as well as detailed information to walk you through the process step by step with expert solutions for thousands of practice problems you can take the guesswork out of studying and move forward with confidence

latin greek roots unit 9 answer key book - Jan 14 2023

web greek and latin roots keys to building vocabulary may 11 2023 enhance instruction with an in depth understanding of how to incorporate word roots into vocabulary lessons in all content areas

a study of word families mrs romero s english reading classes - Nov 12 2022

web unit one 9 vocabulary from latin and greek roots fill in the blank with the best word from the choices below one word will not be used invective invidious phototropic specter phosphorescent 5 scientists were amazed to discover that the plant was not at all and could grow in total dark ness 6

latin greek roots unit 9 answer key download only - Apr 05 2022

web algebra unit 9 part a lesson 1 greek and latin roots lesson aud vis struct photo and therm unit 9 lesson 1 latin and greek roots mp4 greek and latin roots lesson 8 etymology 101 lesson 9 root pop latin people solv solut loosen brett robbins pg trb english unit 9 preparation strategy ap world history unit 1 review

unit 9 vocabulary pdf unit nine vocabulary from latin and - Apr 17 2023

web unformatted text preview unit nine vocabular y from latin and greek roots unit nine from latin unus one uniform yoon 9 form adj the same all the way through consistent l unus formis form one form if you bake the cake properly it will be of uniform sweetness and moistness syn unvarying ant variable disparate unison

vocabulary from latin and greek roots prestwick house - Oct 11 2022

web download a sample lessons centered around up to 4 greek or latin roots and up to 15 new vocabulary words word definitions example sentences synonyms and antonyms and parts of speech explanations mnemonic cartoons and interesting word notes that make the content fun and memorable

vocabulary from latin and greek roots level ix unit 4 quizlet - Feb 15 2023

web disposition one s attitude or mood figment something invented or imaginary effigy a figure constructed in mockery prefigure to look like or predict a later thing or event study with quizlet and memorize flashcards containing terms like

latin greek roots unit 9 answer key db csda - May 06 2022

web latin greek roots unit 9 answer key 1 latin greek roots unit 9 answer key vocabulary from latin and greek roots
 prestwickhouse com vocabulary from latin and greek roots vocabulary roots algebra unit 9 part a lesson 1 greek and latin
 roots lesson aud vis struct photo and therm unit 9 lesson 1 latin and greek roots mp4
[latin greek roots unit 9 answer key 2023 esource svb](#) - Sep 10 2022
 web the mr a show word roots unit 4 the mr a show word roots unit 1 latin and greek roots 2 0 list of greek and latin roots in
 english vocabulary unit 9 prestwick house the mr a show word roots unit 2 list of greek and latin roots in english wikipedia
 latin greek roots unit 9 vocabulary from latin and greek roots vocabulary roots
latin greek roots unit 9 answer key las gnome - Jun 07 2022
 web feb 20 2023 latin greek roots unit 9 answer key is available in our book collection an online access to it is set as public
 so you can get it instantly our books collection spans in multiple locations allowing you to get the most less latency time to
 download any of our books like this one
[latin greek roots unit 9 answer key copy esource svb](#) - Mar 04 2022
 web sets of greek unit 9 latin roots flashcards on quizlet greek unit 9 latin roots flashcards and study sets quizletlevelvii
 levelviii levelix levelx levelxi levelxii getting started levels 4 xii
vocabulary from latin and greek roots level ix answers tpt - Mar 16 2023
 web the majority of english words come from greek and latin roots so teaching greek and latin roots will help your students
 develop their vocabularies this product a word root prefix and suffix study is aligned to the common core state standards
vocabulary from latin and greek roots level xi quizlet - Jul 20 2023
 web our resource for vocabulary from latin and greek roots level xi includes answers to chapter exercises as well as detailed
 information to walk you through the process step by step with expert solutions for thousands of practice problems you can
 take the guesswork out of studying and move forward with confidence
vocabulary from latin and greek roots level ix unit 3 quizlet - May 18 2023
 web vocabulary from latin and greek roots level ix unit 3 4 0 160 reviews prohibit click the card to flip to stop someone from
 doing something to prevent click the card to flip 1 12
latin greek roots unit 9 answer key pdf learn copyblogger - Jul 08 2022
 web instigate transformation is truly remarkable this extraordinary book aptly titled latin greek roots unit 9 answer key
 published by a very acclaimed author immerses readers in a captivating exploration of the significance of language and its
 profound effect on our existence throughout this
[vocabulary from latin and greek roots unit 9 answer key pdf](#) - Dec 13 2022
 web a complete unit of greek and latin roots prefixes and suffixes a practice worksheet for each word part formative

assessment and answer keys free vocabulary from latin and greek roots unit 9 answer key pdf

pennsylvania ebt deposit schedule 2023 houston case - Jan 27 2022

web nov 26 2022 in the state of pennsylvania each county distributes snap benefits to those who qualify payments are not made on a single day of the month instead food

pennsylvania application for the supplemental nutrition - Nov 05 2022

web oct 1 2022 snap income limits there are a few factors that contribute to higher snap allowances and income limits in pennsylvania factors include household size monthly

snap schedule 2023 when september payments are coming - Sep 22 2021

web jul 2 2022 pennsylvania snap payment schedule for july 2022 august 6 2022 kwame kuadey in the state of pennsylvania there are currently over 987 280

pennsylvania ebt electronic benefit transfer - Jan 07 2023

web ebt stands for electronic benefits transfer if you have been approved to receive benefits from one of the programs listed below you can use this website to view your benefit

pennsylvania snap payment schedule for june - Feb 25 2022

web oct 10 2022 here is the january 2023 deposit schedule for food stamps in pennsylvania they will be issued between january 18th and january 31st with the

snap department of human services - Jul 13 2023

web are you a college student find out how college students might qualify for snap benefits questions call the department of human services helpline toll free at 1 800 692 7462

appendix b payment date information and schedules - Aug 14 2023

web nov 1 2022 2022 disbursement and corresponding dates for cash snap benefits pa 1635 2022 multi digit payment schedule pa fs 855 2022 multi digit spanish payment schedule pa fs 855 s 2022 multi digit chinese payment schedule pa fs 855 ch

pennsylvania snap payment schedule for april - Apr 29 2022

web oct 1 2022 through sept 30 2023 snap eligibility in pennsylvania there are three eligibility tests for snap the gross income the net income and the asset tests

monthly snap issuance schedule for all states and territories - Feb 08 2023

web nov 15 2021 monthly snap issuance schedule for all states and territories breadcrumb home supplemental nutrition assistance program snap resource type

pennsylvania ebt food stamp schedule allebt.org - Aug 02 2022

web pa 1635 8 22 disbursement and corresponding dates for cash snap benefits january and february 2023 february 2023 19 work days

pennsylvania snap eligibility information - Mar 29 2022

web may 28 2022 snap households in all counties in pennsylvania should have their snap deposits between june 1st june 14th additionally cash benefits recipients should

as federal snap benefits change shapiro administration steps - Sep 03 2022

web aug 15 2022 what is the pennsylvania ebt food stamp schedule the pennsylvania ebt food stamp schedule is a tool used by the state to help eligible residents with food

cash and snap payment issuance schedule - May 11 2023

web for cash and snap supplemental nutrition assistance program the new name for food stamps benefits find the last digit of your case number read down the column to learn

snap benefit schedule 2023 what are food stamps deposit - Nov 24 2021

web sep 5 2023 make your money work for you here s the september 2023 snap payout schedule for all 50 states and the district of columbia guam and the u s virgin

cash and snap payment issuance schedule - Jun 12 2023

web for cash and snap supplemental nutrition assistance program the new name for food stamps benefits find the last digit of your case number read down the column to learn

snap schedule 2023 when september payments are coming - Oct 24 2021

web sep 5 2023 8 1 691 1 150 each additional person 211 to qualify for snap benefits you must meet certain asset and income levels determined by the federal government

cash and snap payment issuance schedule - Mar 09 2023

web for cash and snap supplemental nutrition assistance program the new name for food stamps benefits find the last digit of your case number read down the column to learn

pennsylvania snap payment schedule for july 2022 - Aug 22 2021

pennsylvania snap payment schedule for december 2022 - Dec 26 2021

web jan 3 2023 dates in 2023 will follow the same format as in 2022 so january payments should be made as expected in the first 10 days of the month as with 2022 payments

january 2023 20 work days services dpw state pa us - Jul 01 2022

web nov 25 2021 pennsylvania ebt deposit schedule for 2023 in the state of pennsylvania the dhs distributes snap food

stamps and tanf cash assistance

snap income limits department of human services - Oct 04 2022

web mar 20 2023 harrisburg pa governor josh shapiro and acting department of human services dhs secretary val arkoosh are reminding pennsylvanians of federal changes

snap cares act department of human services - Dec 06 2022

web jan 4 1999 pa 600 fs sg 9 19 pennsylvania application for the supplemental nutrition assistance program snap pennsylvania receives information from other state and

pennsylvania ebt deposit schedule for 2023 - May 31 2022

web mar 28 2022 snap households in all counties in pennsylvania should have their snap deposits between april 1st april 14th additionally cash benefits recipients should

food stamp deposit schedule in pennsylvania providers - Apr 10 2023

web jan 6 2023 monthly benefit deposit schedule last updated 01 06 2023 the pennsylvania snap deposit schedule is posted here

ags general science worksheets pdf free download - Sep 03 2022

web ags biology displaying top 8 worksheets found for ags biology some of the worksheets for this concept are ags biology cycles of life answer key ags earth science work

ags bfgs - Nov 24 2021

ags activity workbook uniport edu ng - Jan 27 2022

web ags biology showing top 8 worksheets in the category ags biology some of the worksheets displayed are ags biology cycles of life answer key ags earth science work

ags activity workbook speakings gestamp - Dec 26 2021

ags geometry workbook pdf line geometry - Apr 10 2023

web topics arithmetic study and teaching secondary handbooks manuals etc mathematics study and teaching secondary handbooks manuals etc

ags activity workbook 2023 - May 31 2022

web apr 27 2023 ags activity workbook 2 6 downloaded from uniport edu ng on april 27 2023 by guest text makes it easy for you to engage students who struggle with reading

ags algebra 9780785435679 solutions and answers quizlet - Jan 07 2023

web workbook activity chapter 1 lesson 2 2 ags publishing permission is granted to reproduce for classroom use only biology cycles of life directions write the letter of the

[chapter 1 lesson 1 what is biology weebly](#) - Oct 04 2022

web have put different activities and games that are both fun and educational this activity book is a great way to improve your little kid attention with counting and creativity with

ags biology worksheets learny kids - Apr 29 2022

web jun 29 2023 workbook access the ags activity workbook join that we have the funding for here and check out the link solely expressed the ags activity workbook is

workbook activity chapter 1 lesson 1 computing - Nov 05 2022

web teacher edition relevant application activities in career community environment and home diverse learning styles activities in auditory group learning lep esl

[ags algebra 1st edition solutions and answers](#) - May 11 2023

web activity 1 place value activity 2 number knowledge activity 3 addition of whole numbers activity 4

[ags basic math skills treff august v free download borrow](#) - Feb 08 2023

web ags textbook activities your grade 25 notes with all vocabulary words defined 25 lesson reviews quizzes 25 vocabulary pages 25 unit or chapter reviews tests

ags activity workbook help environment harvard edu - Mar 29 2022

web als ags übernehmen sie in einem betreuungs oder pflegeteam pflege und betreuungsaufgaben gemäss delegation wahr sie begleiten klientinnen und klienten in

[general science student workbook ags](#) - Aug 02 2022

web merely said the ags activity workbook is universally compatible with any devices to read everyday life skills student workbook answer key 2006 01 a skills based program

table of contents - Oct 24 2021

[adding whole numbers highpoint coral way portal](#) - Jul 13 2023

web name date periodworkbook activity chapter 1 lesson 1 1 adding whole numbers combine like places when adding 11 47 add the ones regroup 17aadd the ones

[ags discover health life skills health](#) - Jul 01 2022

web ags activity workbook ags activity workbook you can acquire it while function exaggeration at dwelling and even in your office if you undertaking to obtain and install

connections ags textbooks ms kopp google sites - Dec 06 2022

web worksheets are ags physical science workbook answers ags general download all the pages and create there own coloring book ela exam answers ags general background

basic math skills ms brody s class - Mar 09 2023

web find step by step solutions and answers to ags algebra 9780785435679 as well as thousands of textbooks so you can move forward with confidence

ags biology worksheets printable worksheets - Sep 22 2021

ags activity workbook secure4 khronos - Feb 25 2022

web ags was created by chris jones in 1997 as adventure creator back then adventure creator was an ms dos based program it didn t have mouse support and it only

parent guide ags mathematics pearson education - Jun 12 2023

web ags mathematics a r e n t g u i d e ags mathematics pre algebra algebra algebra ii geometry homeschool bundle includes student edition student workbook teacher

chapter 1 lesson 1 arithmetic and algebra chat homeschool - Aug 14 2023

web arithmetic and algebra 16 2 22 false 10 5 2 true 33 n 12 open directions write true if the statement is true or false if it is false write open if the statement is neither true