

NAME: \_\_\_\_\_

CLASS: \_\_\_\_\_

DATE: \_\_\_\_\_

1.  Which of the following trigonometric ratios are correct for the right triangle? (Select **ALL** that apply)

☐ A  $\sin A = \frac{24}{25}$

☐ B  $\cos A = \frac{7}{25}$

☐ C  $\cos C = \frac{25}{24}$

☐ D  $\tan C = \frac{7}{24}$

☐ E  $\sin C = \frac{7}{25}$

2. If  $\cos \theta = \frac{12}{13}$ , then  $\sin \theta = ?$

☐ A  $\frac{5}{12}$

☐ B  $\frac{5}{13}$

☐ C  $\frac{12}{5}$

☐ D  $\frac{12}{13}$

☐ E  $\frac{13}{5}$

3. If  $\sin \theta = \frac{3}{5}$ , then  $\tan \theta = ?$

☐ A  $\frac{3}{5}$

☐ B  $\frac{5}{3}$

☐ C  $\frac{4}{3}$

☐ D  $\frac{4}{5}$

☐ E  $\frac{3}{4}$

4.  Which trigonometric ratio would you use to solve for  $x$ ?

# Test 33 Trigonometry

**Michael Chernoff, William P. Gorth**



### Test 33 Trigonometry:

*Further Mathematics* Michael Cody, Mike Cody, 2006      **The Complete Idiot's Guide to Trigonometry** Dmitriy Fotiyev, Izolda Fotiyeva Ph.D., 2012-04-03 Follows a standard course curriculum Includes both polar coordinates and complex numbers unlike the competition      Geometry Steve Slavin, Ginny Crisonino, 2004-10-28 Learn geometry at your own pace What are congruent circles How do you find the hypotenuse of a triangle What is the sum of the angles in a decagon How can you apply geometric equations to your daily life With the unbeatable study companion *Geometry A Self Teaching Guide* you ll discover the answers to these questions and many more This thorough primer presents an easy to follow proven method for grasping the key concepts of geometry You ll progress step by step through plane solid and analytic geometry and then move on to geometric applications for calculus You ll build your problem solving skills along the way through detailed examples reviews exercises and answer explanations The clearly structured format of *Geometry* makes it fully accessible providing an easily understood comprehensive overview for everyone from high school students to adult learners to math mavens Like all Self Teaching Guides *Geometry* allows you to build gradually on what you have learned at your own pace Questions and self tests reinforce the information in each chapter and allow you to skip ahead or focus on specific areas of concern Packed with useful up to date information this clear concise volume is a valuable learning tool and reference source for anyone who wants to improve his or her understanding of basic geometry      Essential Mathematics 9 PAJ Lewis, *Essential Mathematics* series for Classes 9 and 10 is based on the latest syllabus prescribed by the Inter State Board for Anglo Indian Education and ISCE The books are written by Mr P A J Lewis an eminent mathematics author A large number of solved examples are provided for practice A list of important definitions formulae and results are provided in the form of Points to Remember      ACT Premium Study Guide, 2022-2023: 6 Practice Tests + Comprehensive Review + Online Practice Brian Stewart, 2021-07-06 Always study with the most up to date prep Look for Barron s ACT Study Guide Premium 2023 6 Practice Tests Comprehensive Review Online Practice ISBN 9781506287263 on sale January 3 2023      Testing for Teacher Certification Michael Chernoff, William P. Gorth, 1985 Teacher certification testing is the most widely discussed topic in education This book explores the history of the movement relevant legal and technical issues and program design and implementation      ACT Study Guide Premium, 2025: 6 Practice Tests + Comprehensive Review + Online Practice Barron's Educational Series, Brian Stewart, 2025-02-04 Get ready for ACT test day with Barron s and crush your goals Barron s ACT is the most up to date and comprehensive guide available to students who want to showcase their collegereadiness earn top scholarships and gain admission to the most competitive universities Internationally known expert author and tutor Brian W Stewart a Princeton graduate and perfect ACT score holder puts his 30 000 plus hours of teaching and tutoring experience to work for you He gives you the same clear and concise advice to excel on the ACT that has helped his students from all ability levels earn perfect ACT scores and admission to Ivy League universities This fully updated guide includes over 2 000 practice

questions and a wide ranging review of ACT subject material to target your weak areas and enhance your strengths 4 full length practice tests including a diagnostic test with a self assessment to target specific question types for your customized study 2 additional full length practice tests online for further practice Detailed overview of the ACT with comprehensive answers to frequently asked questions and detailed advice for students who have extended time accommodations Study plan recommendations based on the amount of time you have to prepare Review of all the concepts tested on the ACT and in depth grammar instruction including punctuation parallelism and wordiness Advanced drills to practice the toughest types of problems you will face on test day Proven strategies to help you with time management minimizing careless mistakes avoiding overthinking and why determining to read or not to read is the essential for a successful approach to ACT science passage The 4 C method for answering ACT reading questions and how to adjust your ACT reading technique for literary narratives and informational passages ACT Writing strategies with plenty of sample prompts accompanied by high scoring responses Publisher's Note Products purchased from 3rd party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product *ACT Study Guide Premium Prep, 2024: 6 Practice Tests + Comprehensive Review + Online Practice* Barron's Educational Series, Brian Stewart, 2024-01-02 Expert tips and study advice to prepare you for the ACT test **Barron's ACT Study Guide Premium, 2023: 6 Practice Tests + Comprehensive Review + Online Practice** Brian Stewart, 2023-01-03 Barron's ACT Premium Study Guide 2023 provides online practice customizable study plans and expert advice from experienced teachers who know the test Step by step review helps you master the content and full length practice tests in the book and online provide a realistic testing experience so you're prepared for the exam *Cracking the ACT Premium Edition with 8 Practice Tests, 2016* Princeton Review, 2016-02-23 THE ALL IN ONE SOLUTION FOR YOUR HIGHEST POSSIBLE SCORE Get all the prep you need to ace the ACT with The Princeton Review including 8 full length practice tests thorough topic reviews and exclusive access to our online Premium Portal with tons of extra practice and resources This eBook edition has been specially formatted for on screen viewing with cross linked questions answers and explanations Techniques That Actually Work Powerful tactics to help you avoid traps and beat the ACT Tips for pacing yourself choosing a LOTD logical guessing and more Essential strategies to help you work smarter not harder Everything You Need to Know for a High Score Complete coverage of all test topics including the new reading and writing sections Thorough review of the skills necessary to help you ace all five ACT sections Bulleted chapter summaries for quick review Practice Your Way to Perfection 8 full length practice tests 4 in the book and 4 online with detailed answer explanations Drills for each test section English Mathematics Reading Science and Writing Instant score reports for online tests plus optional LiveGrader™ essay scoring Plus with Cracking the ACT Premium Edition you'll get online access to our exclusive Premium Portal for an extra competitive edge Video tutorials with expert advice from leading course instructors Customized multi week study plans Exclusive access to college and

university rankings College admissions and financial aid tips Special downloadable ACT Insider booklet packed with information about planning college visits picking a perfect school and writing standout essays      **Cracking the ACT Premium Edition with 8 Practice Tests, 2017** Princeton Review, 2017-01-24 THE ALL IN ONE SOLUTION FOR YOUR HIGHEST POSSIBLE SCORE Get all the prep you need to ace the ACT with The Princeton Review including 8 full length practice tests thorough topic reviews and exclusive access to our online Premium Portal with tons of extra resources This eBook edition has been specially formatted for on screen viewing with cross linked questions answers and explanations Techniques That Actually Work Powerful tactics to help you avoid traps and beat the ACT Tips for pacing yourself and guessing logically Essential strategies to help you work smarter not harder Everything You Need to Know for a High Score Complete coverage of all test topics including the reading and written portions Thorough review of the skills necessary to help you ace all five ACT sections Bulleted chapter summaries for quick review Practice Your Way to Perfection 8 full length practice tests 4 in the book and 4 online with detailed answer explanations Drills for each test section English Mathematics Reading Science and Writing Instant score reports for online tests plus optional LiveGrader TM essay scoring Online Access to Our Exclusive Premium Portal Online practice exams to hone your test taking techniques Video tutorials with expert advice from leading course instructors Customized multi week study plans Exclusive access to college and university rankings College admissions and financial aid tips Special downloadable ACT Insider booklet packed with information about planning college visits picking a perfect school and writing standout essays      *Cracking the ACT Premium Edition with 8 Practice Tests, 2018* Princeton Review, 2018-01-23 THE ALL IN ONE SOLUTION FOR YOUR HIGHEST POSSIBLE ACT SCORE including 8 full length practice tests for realistic prep content reviews for all test sections techniques for scoring success and premium online extras This eBook edition has been specially formatted for on screen viewing with cross linked questions answers and explanations Techniques That Actually Work Powerful tactics to help you avoid traps and beat the ACT Tips for pacing yourself and guessing logically Essential strategies to help you work smarter not harder Everything You Need to Know for a High Score Complete coverage of all test topics including the reading and written portions Thorough review of the skills necessary to help you ace all five ACT sections Bulleted chapter summaries for quick review Practice Your Way to Perfection 8 full length practice tests 4 in the book and 4 online with detailed answer explanations Drills for each test section English Mathematics Reading Science and Writing Instant score reports for online tests with optional LiveGrader TM essay scoring Online Access to Our Exclusive Premium Portal Online practice exams to hone your test taking techniques Video tutorials with expert advice from leading course instructors Customized multi week study plans Exclusive access to college and university rankings College admissions and financial aid tips Special downloadable ACT Insider booklet packed with information about planning college visits picking a perfect school and writing standout essays      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1961 Includes Part 1 Number 1 2 Books and

Pamphlets Including Serials and Contributions to Periodicals January December      **Cracking the ACT Premium Edition with 8 Practice Tests, 2019** The Princeton Review, 2019-01-29 Make sure you're studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review ACT Premium Prep 2020 ISBN 9780525568803 on sale December 2019 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product

**Cracking the ACT with 6 Practice Tests, 2017 Edition** Princeton Review, 2017-01-24 THE PRINCETON REVIEW GETS RESULTS Get all the prep you need to ace the ACT with 6 full length practice tests thorough ACT topic reviews and extra practice online This eBook edition has been specially formatted for on screen viewing with cross linked questions answers and explanations Techniques That Actually Work Powerful tactics to help you avoid traps and beat the ACT Tips for pacing yourself and guessing logically Essential strategies to help you work smarter not harder Everything You Need to Know for a High Score Complete coverage of all test topics including the reading and written portions Thorough review of the skills necessary to ace all five ACT sections Bulleted chapter summaries for quick review Practice Your Way to Perfection 6 full length practice tests 4 in the book 2 online with detailed answer explanations Drills for each test section English Mathematics Reading Science and Writing Instant score reports for online tests plus optional LiveGrader™ essay scoring

Register of the University of California University of California (1868-1952), 1956      **Viewpoints**, 1928      **ACT 5-Hour Quick Prep For Dummies** Lisa Zimmer Hatch, Scott A. Hatch, 2024-02-06 Fast focused test prep that will help you sail through the ACT ACT 5 Hour Quick Prep For Dummies will calm your test day jitters Gain confidence with an overview of test content what to expect on the day of the exam and a short form practice test with detailed explanations of the answers This one of a kind study guide is broken down into study blocks that you can tackle in 5 hours all at once or over a few days When you've finished practicing you'll find a section full of tips and reminders that you can review the night before so test day will be a breeze You'll be on the fast track to ACT success with this book Know what to expect on the ACT exam including the content and test format Work through ACT example questions for every subject covered on the test Check your knowledge with a short sample test that includes detailed answers Improve your chances of getting into the college you want with a great score on the ACT ACT 5 Hour Quick Prep For Dummies is perfect for high schoolers preparing to take the ACT and looking for a fast focused study guide that won't take months to work through      **The Teacher's Handbook** Willard Slingerland Elsbree, Harvey Randolph Halsey, Elizabeth S. Elsbree, 1929      **Education Outlook**, 1894

Ignite the flame of optimism with Get Inspired by is motivational masterpiece, Fuel Your Spirit with **Test 33 Trigonometry** . In a downloadable PDF format ( \*), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

<https://canada-fr-test.teachermatch.org/About/uploaded-files/fetch.php/Weed%20Eater%20450%20Lawn%20Mower%20Owner%20Manual.pdf>

## **Table of Contents Test 33 Trigonometry**

1. Understanding the eBook Test 33 Trigonometry
  - The Rise of Digital Reading Test 33 Trigonometry
  - Advantages of eBooks Over Traditional Books
2. Identifying Test 33 Trigonometry
  - 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 Test 33 Trigonometry
  - User-Friendly Interface
4. Exploring eBook Recommendations from Test 33 Trigonometry
  - Personalized Recommendations
  - Test 33 Trigonometry User Reviews and Ratings
  - Test 33 Trigonometry and Bestseller Lists
5. Accessing Test 33 Trigonometry Free and Paid eBooks
  - Test 33 Trigonometry Public Domain eBooks
  - Test 33 Trigonometry eBook Subscription Services
  - Test 33 Trigonometry Budget-Friendly Options

6. Navigating Test 33 Trigonometry eBook Formats
  - ePub, PDF, MOBI, and More
  - Test 33 Trigonometry Compatibility with Devices
  - Test 33 Trigonometry Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Test 33 Trigonometry
  - Highlighting and Note-Taking Test 33 Trigonometry
  - Interactive Elements Test 33 Trigonometry
8. Staying Engaged with Test 33 Trigonometry
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Test 33 Trigonometry
9. Balancing eBooks and Physical Books Test 33 Trigonometry
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Test 33 Trigonometry
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Test 33 Trigonometry
  - Setting Reading Goals Test 33 Trigonometry
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Test 33 Trigonometry
  - Fact-Checking eBook Content of Test 33 Trigonometry
  - 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

### Test 33 Trigonometry Introduction

Test 33 Trigonometry Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Test 33 Trigonometry Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Test 33 Trigonometry : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Test 33 Trigonometry : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Test 33 Trigonometry Offers a diverse range of free eBooks across various genres. Test 33 Trigonometry Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Test 33 Trigonometry Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Test 33 Trigonometry, especially related to Test 33 Trigonometry, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Test 33 Trigonometry, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Test 33 Trigonometry books or magazines might include. Look for these in online stores or libraries. Remember that while Test 33 Trigonometry, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Test 33 Trigonometry eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Test 33 Trigonometry full book , it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Test 33 Trigonometry eBooks, including some popular titles.

### FAQs About Test 33 Trigonometry Books

**What is a Test 33 Trigonometry PDF?** A PDF (Portable Document Format) is a file format developed by Adobe that

preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Test 33 Trigonometry PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Test 33 Trigonometry PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Test 33 Trigonometry PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Test 33 Trigonometry PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

### Find Test 33 Trigonometry :

**weed eater 450 lawn mower owner manual**

**websters new world students dictionary**

**web 20 civic media in action emerging trends & practices**

**weekly guide 2 sociology matters**

**weinig unimat 23 manual**

**web address password book**

[website of the cracked cookies](#)

[welcome to dhl emailship user guide](#)

[wechat latest apk file downloads](#)

[welding fixtures design manual](#)

[we so seldom look on love](#)

**web mystery 12 all stories**

**weightronix e1070 service manual**

[weather investigation manual answers 2013](#)

*weed eater featherlite sst25ho manual*

### **Test 33 Trigonometry :**

Troy Bilt Tomahawk Chipper for sale Shop great deals on Troy Bilt Tomahawk Chipper. Get outdoors for some landscaping or spruce up your garden! Shop a huge online selection at eBay.com. Going to look at a Troybuilt Super Tomahawk chipper ... Aug 25, 2018 — The sale of this chipper came with extra's. Three differently sized shredding grates, One plastic push tool for grinding, to keep hands clear. Troy-bilt Super Tomahawk Industrial Chipper / Shredder Not a toy, this machine has a B&S 8.5HP engine and eats 4-6" limbs. I can transport it for you OR rent you my 4x8' utility trailer for a few extra bucks OR you ... Troy Bilt Super Tomahawk Chipper Shredder Electric Start ... Troy Bilt Super Tomahawk Chipper Shredder. Garden Way. Excellent Hardly-Used Condition. You will rarely find them with all four screens/grates. Troy-Bilt Tomahawk Wood Chipper/Shredder model 47285 This spins up the shredder cage smoothly. No belt slippage. When you turn off the engine, the whole assembly spins down to 1800 RPM where the clutch disengages ... Troy Bilt Super Tomahawk Chipper Shredder I recently bought a used Troy Bilt Super Tomahawk VI Chipper-shredder. Right now, it's primary job is to deal with brush left over from our recent ice storm ... Troy-Bilt Wood Chipper - Super Tomahawk = Our No. 1 ... May 7, 2020 — The Troy-Bilt Super Tomahawk wood chipper comes with three screens for different size chipping, but most of the time we do the chipping without ... Troy Built Super Tomahawk. May 28, 2019 — Bought this chipper shredder in 1998 at a auction sale. Paid a whopping \$175.00 for it with two grates. One grate is a ladder type and the ... First John Reader: Intermediate Greek... by Baugh, S. M. Baugh's "A First John Reader" is a very helpful book for anyone who has had a little bit of Koine Greek and is beginning to make the transition from learning ... A First John Reader Ideal for intermediate students of Greek or those who want to review their knowledge of Greek with assistance in translating I John. A bridge from beginning ... S.M. Baugh: 9780875520957 - A First John Reader This reader features: -relevant reading notes on the text of 1 John -useful vocabulary lists -helpful review of lessons from A New Testament Greek Primer ... First John Reader Jul 1, 1999 — An inductive

introduction to intermediate Greek syntax, this reader enables students to apply the rudiments of Greek grammar to the actual ... A First John Reader An inductive introduction to intermediate Greek syntax, this reader enables students to apply the rudiments of Greek grammar to the actual interpretation of ... A First John Reader by S.M. Baugh Baugh, author of the innovative New Testament Greek Primer , has put together this inductive introduction to intermediate Greek syntax through a reading of ... A first John reader : intermediate Greek reading notes and ... Summary: This introduction to Greek syntax assists intermediate students in the translation of 1 John. Applying the rudiments of grammar to actual passages, ... First John Reader: Intermediate Greek Reading Notes ... Ideal for intermediate students of Greek or those who want to review their knowledge of Greek with assistance in translating 1 John. A bridge from beginning ... A First John Reader: Intermediate Greek Reading Notes ... Ideal for intermediate students of Greek or those who want to review their knowledge of Greek with assistance in translating 1 John. A bridge from beginning ... First John Reader The First John Reader is an attempt to provide students with the basics of such a background. How Does This Work? Using the Epistle of First John as a ... User manual Husqvarna Viking 230 (English - 44 pages) Manual. View the manual for the Husqvarna Viking 230 here, for free. This manual comes under the category sewing machines and has been rated by 7 people ... User manual Husqvarna 230 (English - 44 pages) Manual. View the manual for the Husqvarna 230 here, for free. This manual comes under the category sewing machines and has been rated by 8 people with an ... Husqvarna 230 Manuals We have 1 Husqvarna 230 manual available for free PDF download: Operating Manual. Husqvarna 230 Operating Manual (45 pages). Viking 230 Instruction Manual This instruction manual is the ultimate guide to unlock the full potential of your Viking 230. No more confusion or frustration—just clear, concise instructions ... Manual Husqvarna 230 Sewing Machine Manual for Husqvarna 230 Sewing Machine. View and download the pdf, find answers to frequently asked questions and read feedback from users. Machine Support - HUSQVARNA VIKING® Download manual. Troubleshooting guide. Register your machine. Machine support. Toll free 1.800.446.2333. Monday - Friday: 8:00 am - 4:00 pm CST info@ ... Husqvarna Viking 210 230 250 instruction user manual Husqvarna Viking 210 230 250 sewing machine instruction and user manual, 42 pages. PDF download. Husqvarna Viking 210 230 250 instruction user manual ... HUSQVARNA AUTOMOWER® 230 ACX/220 AC ... Introduction and safety ..... 5. 1.1 Introduction .