

MATHEMATICS N2 CLASS EXERCISE 1

QUESTION 1

- 1.1 Solve the following equations:
- 1.1.1 $-x^2 + 3x - 2 = 0$ by factorisation (3)
- 1.1.2 $6(2 - m) - 5(4 - m) = 7$ (3)
- 1.2 Given: the formula $p = \sqrt[3]{r^2 - q^2}$
- 1.2.1 Make ' r ' the subject of the formula (3)
- 1.2.2 Calculate the value of ' r ' if $p = 4$ and $q = 6$ (1)
- 1.3 Solve for ' x ' and ' y ' in the following simultaneous equations:
- $5x = 6y + 3$ and $3y - 4x + 1 = 0$ (4)
- [14]

QUESTION 2

- 2.1 A man deducted 3 from 5 times his age and got his grandmother's age.
If his grandmother is 97 years old, how old is the man? (2)
- 2.2 Given: $4x^2 - 15x - 47 = 0$
Solve for ' x ' the equation using the quadratic formula. (3)
- 2.3 Given: $H = \frac{7,5U}{273 + V}$
- 2.3.1 Make ' V ' the subject of the formula. (3)
- 2.3.2 Find the value of ' V ' if $U = 0,5$ and $H = 0,005$ (1)
- 2.4 Given: $8p - 1 = -2q$ and $2p + 3q = 4$
Solve for ' p ' and ' q ' (4)
- [13]

TOTAL: 27 MARKS

Mathematics N2question Papers And Memorandum

N Colangelo



Mathematics N2question Papers And Memorandum:

Delve into the emotional tapestry woven by in Dive into the Emotion of **Mathematics N2question Papers And Memorandum** . This ebook, available for download in a PDF format (Download in PDF: *), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

https://staging.conocer.cide.edu/About/browse/default.aspx/longitudal_sound_waves_wsv3_2_answers.pdf

Table of Contents Mathematics N2question Papers And Memorandum

1. Understanding the eBook Mathematics N2question Papers And Memorandum
 - The Rise of Digital Reading Mathematics N2question Papers And Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics N2question Papers And Memorandum
 - 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 Mathematics N2question Papers And Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics N2question Papers And Memorandum
 - Personalized Recommendations
 - Mathematics N2question Papers And Memorandum User Reviews and Ratings
 - Mathematics N2question Papers And Memorandum and Bestseller Lists
5. Accessing Mathematics N2question Papers And Memorandum Free and Paid eBooks
 - Mathematics N2question Papers And Memorandum Public Domain eBooks
 - Mathematics N2question Papers And Memorandum eBook Subscription Services
 - Mathematics N2question Papers And Memorandum Budget-Friendly Options

6. Navigating Mathematics N2question Papers And Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics N2question Papers And Memorandum Compatibility with Devices
 - Mathematics N2question Papers And Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics N2question Papers And Memorandum
 - Highlighting and Note-Taking Mathematics N2question Papers And Memorandum
 - Interactive Elements Mathematics N2question Papers And Memorandum
8. Staying Engaged with Mathematics N2question Papers And Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics N2question Papers And Memorandum
9. Balancing eBooks and Physical Books Mathematics N2question Papers And Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics N2question Papers And Memorandum
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics N2question Papers And Memorandum
 - Setting Reading Goals Mathematics N2question Papers And Memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics N2question Papers And Memorandum
 - Fact-Checking eBook Content of Mathematics N2question Papers And Memorandum
 - 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

Mathematics N2question Papers And Memorandum Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Mathematics N2question Papers And Memorandum free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Mathematics N2question Papers And Memorandum free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Mathematics N2question Papers And Memorandum free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Mathematics N2question Papers And Memorandum. In conclusion, the internet offers numerous

platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Mathematics N2question Papers And Memorandum any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Mathematics N2question Papers And Memorandum Books

1. Where can I buy Mathematics N2question Papers And Memorandum books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Mathematics N2question Papers And Memorandum book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Mathematics N2question Papers And Memorandum books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Mathematics N2question Papers And Memorandum audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores.

Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.

9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
10. Can I read Mathematics N2question Papers And Memorandum books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Mathematics N2question Papers And Memorandum :

longitudal sound waves wsv3 2 answers

loomatic guide to ranbow loom

~~lost in blue erotic romance adventure english edition~~

love s learning curves

lord ned agrave tout prix la duchesse des coeurs t

~~longwood guide to writing 4th edition~~

low fat banana nut muffin recipe

loreal technical guide

lordre cannibale essai francce dilais

love extended definition essay

love unexpected beacons of hope book

louisiana and the gulf south frontier 1500 1821

~~love romances of the aristocracy~~

lost to you the regret series english edition

longing for life the treacherous quest for motherhood through ivf

Mathematics N2question Papers And Memorandum :

read ebook doug the pug 2020 box calendar dog breed calendar - Dec 11 2021

web sep 23 2019 doug the pug 2020 wall calendar dog breed calendar 14 99 12 94 in stock buy now amazon com as of may 26 2022 8 52 pm features bindingcalendar

doug the pug 2021 box calendar dog breed calendar - Apr 14 2022

web click link to download mediabooklibraryclub blogspot com book 1549208853 book descriptions with over 13 million followers across his social media and well over 1

doug the pug 2021 box calendar dog breed calendar - Jun 16 2022

web r a r doug the pug 2020 box calendar dog breed calendar epub download doug the pug 2020 box calendar dog breed calendar read ebook online pdf epub

doug the pug 2020 box calendar dog breed calendar - Aug 31 2023

web aug 15 2019 doug the pug 2020 box calendar dog breed calendar calendar day to day calendar august 15 2019 with over 13 million followers across his social media

doug the pug 2021 box calendar dog breed calendar by - Mar 26 2023

web aug 3 2020 doug the pug 2021 box calendar dog breed calendar calendar day to day calendar august 3 2020 by leslie mosier creator 554 ratings calendar 14 99 2

2020 box calendar dog br yumpu - May 16 2022

web aug 3 2020 with over 13 million followers across his social media and well over 1 billion facebook video views doug the pug is one of the world s most famous and most

pdf doug the pug 2020 box calendar dog breed calendar - May 28 2023

web abebooks com doug the pug 2020 box calendar dog breed calendar 9781549208850 and a great selection of similar new used and collectible books available now at great prices

2020 box calendar dog br yumpu - Feb 10 2022

web r a r doug the pug 2020 box calendar dog breed calendar epub download doug the pug 2020 box calendar dog breed calendar read ebook online pdf epub

doug the pug 2021 wall calendar dog breed calendar - Aug 19 2022

web buy doug the pug 2020 box calendar dog breed calendar others book by lubetzky daniel from as low as 12 13

doug the pug 2020 box calendar dog breed calendar - Jul 30 2023

web jul 12 2019 doug the pug 2020 box calendar dog breed calendar mosier leslie amazon co uk stationery office supplies calendars planners personal organisers

amazon com doug the pug calendar - Jun 28 2023

web close try adfree self publishing discover

r a r doug the pug 2020 box calendar dog breed calendar - Jan 12 2022

web pdf download doug the pug 2020 box calendar dog breed calendar ebook read online file link greatebook club book

1549208853 download doug the

download pdf doug the pug 2020 box calendar dog - Mar 14 2022

web pdf read free doug the pug 2020 box calendar dog breed calendar textbook download doug the pug 2020 box calendar dog breed calendar read ebook online

doug the pug 2020 wall calendar dog breed calendar - Jan 24 2023

web jul 26 2019 doug the pug 2020 mini wall calendar dog breed calendar mosier leslie on amazon com free shipping on qualifying offers doug the pug 2020 mini

doug the pug 2020 box calendar dog breed calendar - Jul 18 2022

web doug the pug 2021 box calendar dog breed calendar mosier leslie 9781549214301 books amazon ca

doug the pug 2020 box calendar dog breed calendar doug - Nov 09 2021

web pool lovers 2020 calendar journal aug 15 2021 large notebook journal with 2020 monthly calendars with week and day numbers each monthly 2020 calendar is in box

doug the pug 2020 engagement calendar dog breed calendar - Sep 19 2022

web jul 27 2020 doug the pug 2021 wall calendar dog breed calendar mosier leslie on amazon com free shipping on qualifying offers doug the pug 2021 wall calendar

doug the pug 2020 box calendar dog breed calendar pdf - Oct 09 2021

doug the pug 2020 box calendar dog breed calendar - Apr 26 2023

web find many great new used options and get the best deals for doug the pug 2021 box calendar dog breed calendar by leslie mosier 2020 calendar at the best online

doug the pug 2020 engagement calendar dog breed calendar - Oct 21 2022

web aug 1 2019 with over 13 million followers across his social media and well over 1 billion facebook video views doug the pug is one of the world s most famous and most

doug the pug 2021 box calendar dog breed calendar - Feb 22 2023

web aug 1 2019 doug the pug 2020 wall calendar dog breed calendar mosier leslie on amazon com free shipping on qualifying offers doug the pug 2020 wall calendar

doug the pug 2021 box calendar dog breed calendar - Nov 21 2022

web jul 15 2019 doug the pug 2020 engagement calendar dog breed calendar mosier leslie amazon co uk stationery office supplies

doug the pug 2020 mini wall calendar dog breed calendar - Dec 23 2022

web buy doug the pug 2021 box calendar dog breed calendar by mosier leslie isbn 9781549214301 from amazon s book store everyday low prices and free delivery on
prentice hall mathematics pre algebra 9780131339958 - Oct 29 2021

textbook answers gradesaver - Oct 09 2022

algebra 2 prentice hall pg 383 algebra 2 year handbook geometry analysis and mechanics holt mcdougal algebra 2 common core college success algebra 2 reveal algebra 2 the

prentice hall middle school mathematics homework help - May 04 2022

may 1 2004 amazon com prentice hall mathematics algebra 2 9780130625687 randall i bragg sadie chavis handlin william g kennedy dan charles books books teen

prentice hall mathematics savvas learning company - Jul 06 2022

prentice hall math course 2 get the exact prentice hall math course 2 help you need by entering the page number of your prentice hall math course 2 textbook below math

algebra 2 9780131339989 solutions and answers quizlet - Aug 19 2023

find step by step solutions and answers to algebra 2 9780131339989 as well as thousands of textbooks so you can move forward with confidence

prentice hall mathematics algebra 2 9780132015974 quizlet - Jul 18 2023

prentice hall mathematics algebra 2 9780132015974 solutions and answers quizlet create find step by step solutions and answers to prentice hall mathematics algebra 2

algebra 2 prentice hall pg 383 cares cariloop - Aug 07 2022

prentice hall algebra 2 pg 383 pdf pages 2 10 prentice hall algebra 2 pg 383 pdf upload mia z williamson 2 10 downloaded from signups myamcat com on october 2 2023 by mia z

prentice hall algebra 2 with trigonometry archive org - May 16 2023

jun 18 2022 access restricted item true addeddate 2022 06 18 21 07 40 associated names smith stanley a prentice hall inc autocrop version 0 0 14 books 20220331 0 2 boxid

prentice hall math algebra 2 student - Dec 11 2022

algebra 2 common core hall prentice publisher prentice hall isbn 978 0 13318 602 4

prentice hall algebra 2 pearson plc - Nov 29 2021

prentice hall algebra 2 pearson plc - Jun 17 2023

prentice hall algebra 2 contents in brief series authors consulting authors program authors reviewers national from the authors power algebra com big ideas end of course

prentice hall algebra 2 online textbook help - Jan 12 2023

isbn 0131339982 prentice hall mathematics algebra 2 author s prentice hall staff published 2005 publisher prentice hall format hardcover more formats book paperback

prentice hall mathematics algebra 2 direct textbook - Nov 10 2022

answers to exercises in prentice hall algebra 2 with trigonometry mcdougal littell algebra 1 book practice and application answers log calculator variables agebra solver cheating

[publisher pearson ed inc publishing as prentice hall](#) - Apr 03 2022

no the output is 1 2 1 half the input for all values except the first input 3 output 2 exercises 9 base of 3 squares with the number of squares increasing vertically by one on each of the outer

[prentice hall mathematics algebra 2 lumos learning](#) - Apr 15 2023

prentice hall mathematics algebra 2 grade 11 workbook answers help online grade 11 title prentice hall mathematics algebra 2 publisher prentice hall isbn 0013062568x prentice

[prentice hall mathematics algebra 2 amazon com](#) - Mar 02 2022

exercise 74 find step by step solutions and answers to algebra 2 9780131339989 as well as thousands of textbooks so you can move forward with confidence

[prentice hall algebra 2 pg 383 pdf full pdf signups myamcat](#) - Jun 05 2022

math812grsm doc 2 system 8 12 1 0 students solve equations and inequalities involving absolute value 41 48 52 8 12 2 0 students solve systems of linear equations and inequalities in two or

prentice hall mathematics algebra 2 1st edition quizlet - Sep 20 2023

exercise 66 exercise 67 exercise 68 find step by step solutions and answers to prentice hall mathematics algebra 2 9780132015974 as well as thousands of textbooks so you can

[prentice hall algebra 2 pearson plc](#) - Feb 01 2022

f x 2 9 x 9 2 for x 9 f open x close equals 2 ninths x minus 9 halves for x equals 9 see problem 6 write a function rule to model the cost per month of a long distance cell phone

[prentice hall mathematics algebra 2 free answer key algebra](#) - Sep 08 2022

prentice hall mathematics algebra 1 geometry algebra 2 a math curriculum by savvas explore overview program components earlier editions partnerships faqs current

[prentice hall algebra 2 pearson plc](#) - Mar 14 2023

27 0 41 13 0 cm 43 21 5 45 8 3 ft 47 79 6 49 18 cm 60 17 1 in 61 8 9 m 62 26 3 in 63 54 0 64 $2\pi \times \pi$ 65 2 3 $\times 1$ 3 66 π 3 $\times \pi$ 6
67 1 $\times 1$ 2 68 $\sin \theta$ 69 $\cos \theta$

prentice hall algebra 2 pearson plc - Feb 13 2023

check your answers $3x$ 18 3 \times 18 4 x 32 4 \times 32 \times 3 9 \times 3 9 2 $3x$ 2 14 2 3 \times 2 14 $3x$ 4 3 3 \times 4 3 $2x$ 3 1 2 \times 3 1 \times 4 3

algebra 2 1st edition solutions and answers quizlet - Dec 31 2021

find step by step solutions and answers to prentice hall mathematics pre algebra 9780131339958 as well as thousands of textbooks so you can move forward with confidence

american standard air conditioner repair guide error codes - Apr 11 2023

web a complete american standard a c step by step guide to troubleshooting dealing with issues replacing your air filter and error codes our useful american standard air conditioner repair guide will teach you about error

american standard air conditioner error codes youtube - Jun 01 2022

web feb 8 2016 0 00 3 07 american standard air conditioner error codes appliance princess 17 8k subscribers subscribe 16k views 7 years ago i need your help with american standard air conditioner error

quick start instructions eev checkout guide - Nov 06 2022

web the display assembly has the ability to communicate an error if present with a text readout of a fault condition check the fault table listed in the service facts for more information 2 system status on clg1 about trane and american standard heating and air conditioning

air handler troubleshooting american standard - Jul 14 2023

web having issues with your air handler find the cause to your problems with our air handler troubleshooting guides

hvac troubleshooting american standard - Jun 13 2023

web solution open the windows to improve air circulation and ventilation within your home consider opening your windows for a few minutes each day even in the winter to increase air circulation and get rid of that stale air

hyperion troubleshooting hvac school - Oct 05 2022

web may 30 2018 one of the most misdiagnosed systems is the trane hyperion air handler specifically the tam7 or aam7 american standard the most common issue they ve had is the sensors that connect to the evc board another common fault has to do with the way the float safety is tied into the system when the float trips opens the loss of

error codes on american standard air handler afc hvac talk - May 12 2023

web dec 13 2015 the air handler is offering the following alert codes alert 1 afc sys com crc alert 2 afc sys comm err alert 3 afc no sys clk

american standard air conditioner error codes twintech heating - Aug 03 2022

web american standard air conditioner codes the comfort control can alert the homeowner and installer to problems with the hvac equipment or comfort control by using error codes when displaying an error code the screen will display err and a bright red light will appear in the top right corner of the comfort control

american standard heat pump error codes hvac boss - Apr 30 2022

web dec 30 2021 the air filters can be clogged or the coil in the indoor air handler is dirty all these things affect the airflow one of the sensors might have gone bad a low level of refrigerant or a refrigerant leak can also be to blame finally the fan motor outdoor coil or control board might be faulty

american standard air furnace symptom checker heating help - Jan 28 2022

web turn the fan switch to on if the fan doesn't turn on it's possible the furnace isn't getting power or the motor is broken filter a dirty filter can cause your furnace to stop working how often you change your filter will depend on your furnace the type of filter and your lifestyle

owner's support american standard hvac systems - Dec 07 2022

web troubleshooting air conditioner issues is easy with american standard symptom checker use these simple troubleshooting tips before you call for service warranty registration

how to fix the american standard hvac 3 flash error code - Mar 30 2022

web dec 1 2020 what it means are you wondering what other american standard furnace red light codes mean if your furnace is flashing 2 times it likely means the furnace is blowing cold air this is happening most likely because

american standard furnace repair troubleshooting error codes - Dec 27 2021

web buy a new filter shut off the furnace or turn off the breaker box controlling it check the right side of the unit to locate the filter slide out the old filter and replace it with the new one use the indicator arrows to make sure the filter is in the right way

hvac american standard with problems youtube - Jul 02 2022

web jun 7 2015 thanks for taking the time to watch our videos if you have any questions let us know we are here to help you to learn how to do hvac service things like

american standard air conditioner error codes youtube - Sep 04 2022

web nov 22 2020 if you're looking for help fixing your american standard air conditioner look no further our comprehensive american standard air conditioner error code guide will explain common issues provide

owner's manuals operating guides american standard - Feb 26 2022

web air handlers air handlers are indoor units that are paired with outdoor units such as air conditioners or heat pumps together these two units circulate warm and cool air to keep you comfortable all year round

air handler troubleshooting american standard - Aug 15 2023

web american standard air handler troubleshooting if you sense any of these issues may be happening with your air handler or if you re not sure whether additional ductwork is needed contact your local dealer our american standard customer care dealers can help you diagnose issues with your air handler as well as other problems you may be

error codes what to do as air home - Mar 10 2023

web error codes what to do 2 years ago updated if you see a numeric error code i e error or err please contact your local hvac dealer for service if you do not currently have a dealer or need your dealer s contact information please refer to our article finding dealer information

american standard air conditioner error codes appliance helpers - Feb 09 2023

web jan 19 2019 our comprehensive american standard air conditioner error code guide will explain common issues provide tips and show you how to read your model s error codes code green light on slow flashing or fast flashing problem unit is operating normally code amber light on

service facts communicating 24 volt control tem8 convertible air handlers - Jan 08 2023

web tem8 7 segment fault code display fault codes can be read from the 7 segment display on the air handler afc board note for the tam9 air handler all of the fault codes can be read from the cda