

# ML AGARWAL MATH 12 CLASS SOLUTION

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**Is ML Aggarwal good for maths?** For mathematics, ML Agrawal is the best. It covers all types of problems and there are a lot of problems to deal with in this book. It also has many examples. There is a gradual increase in the level of questions in each exercise which also helps in building confidence.

**What is relation and function in ISC Class 12?** Mathematically, “a relation  $f$  from a set  $A$  to a set  $B$  is said to be a function if every element of set  $A$  has one and only one image in set  $B$ ”. In other words, a function  $f$  is a relation from a set  $A$  to set  $B$  such that the domain of  $f$  is  $A$  and no two distinct ordered pairs in  $f$  have the same first element.

**Is ML Aggarwal for ICSE?** ML Aggarwal Maths is one of the best reference books available for ICSE students to prepare for their board exams.

**Is ML math heavy?** Machine learning does involve a significant amount of math, particularly in areas like statistics, probability, linear algebra, and calculus. These mathematical concepts are fundamental in understanding how machine learning algorithms work.

**Is ML aggarwal sufficient for jee?** Yeah! APC Understanding ISC Mathematics of class-XI by MLAggarwal is a good book for foundation of the class-XI Jee maths courses. It can help to build the concepts of the topics and clarification of the problems. The book contains very good illustrative examples as well as exercises.

**What are the four types of relations in math?**

**What is the difference between relation and function class 12?** An ordered pair is represented as (INPUT, OUTPUT): The relation shows the relationship between INPUT and OUTPUT. Whereas, a function is a relation which derives one OUTPUT for each given INPUT. Note: All functions are relations, but not all relations are functions.

**What are 5 real life examples of relation and function?**

**Who is the ICSE topper in India?** ICSE Topper Darsh Punjwani with 98.4% aims to join dream engineering institute, IIT Bombay. ICSE Topper 2024 Akshita Agarwal, with 99.2% shares strategy to secure above 95% in board exams. ISC Topper 2024 Aryaa Sethia with 98.25% aspires to crack UPSC exam.

**Who was ML Aggarwal?** Lt Col (Retd) M L Agrawal was born on 9 December 1944. He completed his graduation in 1968. He started his career as a production manager in a sugar mill in Joara M.P. He joined the Indian Army's permanent commission in June 1968 and retired in May 1991.

**Which pen is best for ICSE board exam?** In case you belong to ICSE board, strictly use a good black gel pen or pens like Reynolds Trimax ( I used this) However, for bubbling the OMR sheet please use a black ball point pen. If your handwriting isn't very good, go for gel ink pen (Trimax) It will give you a good grip, smooth flow and help you write faster.

**What's the hardest math class?** 1. Real Analysis: This is a rigorous course that focuses on the foundations of real numbers, limits, continuity, differentiation, and integration. It's known for its theoretical, proof-based approach and can be a paradigm shift for students used to computation-heavy math courses.

**Can I do ML without math?** Without understanding these, it would be hard to effectively tune a model. In conclusion, while it's possible to teach the basics of machine learning without a math background, a comprehensive understanding requires a solid foundation in mathematics. Therefore, it's essential to incorporate math into machine learning.

**How math heavy is coding?** The answer is nuanced. For basic coding tasks and everyday programming, a deep understanding of advanced mathematics isn't

necessary. However, as you delve into more complex areas like machine learning, data analysis, game development, or scientific computing, a strong grasp of math becomes increasingly important.

**Is Aakash good for IIT JEE?** Students at Aakash are said to develop logical scientific thinking which later leads them to great success, making it one of the best IIT-JEE coaching institutes across the nation.

**Who is the best maths teacher on youtube for jee?**

**Is Cengage A to Z good for JEE?** The Cengage series of books is by far the most comprehensive guide for JEE preparation that I have seen till date. But remember that it is very vast and you could loose direction in trying to complete it (specially if you want to do each and every problem).

**What is function in maths class 12?** A function is defined as a relation between a set of inputs having one output each. In simple words, a function is a relationship between inputs where each input is related to exactly one output. Every function has a domain and codomain or range. A function is generally denoted by  $f(x)$  where  $x$  is the input.

**What is an empty relation class 12?** An empty relation (or void relation) is one in which there is no relation between any elements of a set. For example, if set  $A = \{1, 2, 3\}$  then, one of the void relations can be  $R = \{x, y\}$  where,  $|x - y| = 8$ . For empty relation,  $R = \emptyset \subset A \times A$ .

**What is a 1:1 function?** A one-to-one function is a function in which each input value is mapped to one unique output value. In another way, no two input elements have the same output value. That is to say, each input has exactly one unique output value to which it is associated via the function.

**What is a domain in math?** The domain of a function is the set of values that we are allowed to plug into our function. This set is the  $x$  values in a function such as  $f(x)$ . The range of a function is the set of values that the function assumes. This set is the values that the function shoots out after we plug an  $x$  value in.

**Is a circle a relation?** Circles. A circle is a relation (not a function), where every point (P) has the same distance to the center (C), which would be the radius of the

circle, so we can write: General Equation of a Circle Distances to circles. You should imagine that \*the point is fixed and can move around to anywhere.

**How to use horizontal line test?** Horizontal Line Test: This test is used to determine if a function is one-to-one. If the line intersects with the graph once, the function passes the horizontal line test and is one-to-one. If it crosses more than once, the function fails the horizontal line test.

**What is the conclusion of relation and function?** Conclusion. Relations are the relationships established between an element of one set and another element of the second state. A relation can also be defined as the subset of the Cartesian product of two individual sets. A function is also a relation where every individual input has a discrete output.

**What is a simple example of relation?** A relation in math is a representation of the relationship between two sets of numbers, the domain and range. The relation tells the user the output if a specific input is given. For example, the ordered pair  $(-3, 2)$  is a relationship between  $-3$  in the domain and  $2$  in the range.

**How do you evaluate a function?** Evaluating a function means finding the value of  $f(x) = \dots$  or  $y = \dots$  that corresponds to a given value of  $x$ . To do this, simply replace all the  $x$  variables with whatever  $x$  has been assigned. For example, if we are asked to evaluate  $f(4)$ , then  $x$  has been assigned the value of  $4$ .

**Which exam is best for mathematics?**

**Which sir is best for maths?** When it comes to mathematics, few teachers can match the expertise and passion of Anil Doolani Sir, the Best Math Teacher in India. With a Master's degree in Mathematics and a gold medal in the subject, Anil Sir has established himself as one of the most sought-after math teachers in India.

**Do you need to be good at math for ML?**

**Is physics and maths tutor good for maths?** Yes, Physics and Maths Tutor is very useful for students studying for their GCSEs and A-Levels! The website offers various resources specifically designed to help students prepare for these exams. These resources include past papers with model solutions, revision notes, cheat sheets, worksheets and questions by topic.

## **Which is the hardest exam in India?**

**What math class is hardest?** 1. Real Analysis: This is a rigorous course that focuses on the foundations of real numbers, limits, continuity, differentiation, and integration. It's known for its theoretical, proof-based approach and can be a paradigm shift for students used to computation-heavy math courses.

**What is the hardest math exam?** Discover the incredibly challenging Putnam Competition, one of the world's toughest math exams. Find out how to approach it and explore more daunting exams on my YouTube channel. This information is AI generated and may return results that are not relevant.

## **Who is No 1 in maths?**

**Who is the No 1 King of Maths?** What was the mathematics king's name? Leonhard Euler is hailed as the King of Mathematics. This blind genius is regarded as the greatest mathematician of all time.

## **Who is the best teacher in India?**

**Can ML be self taught?** Can You Learn Machine Learning on Your Own? Absolutely. Although the long list of ML skills and tools can seem overwhelming, it's definitely possible to self-learn ML. With the sheer amount of free and paid resources available online, you can develop a great understanding of machine learning all by yourself.

**Is calculus needed for ML?** In conclusion, calculus plays a crucial role in machine learning. By understanding the basics of derivatives, integrals, and gradient descent, we can develop advanced models that accurately predict outcomes and identify patterns.

**Can I learn ML without maths?** Without understanding these, it would be hard to effectively tune a model. In conclusion, while it's possible to teach the basics of machine learning without a math background, a comprehensive understanding requires a solid foundation in mathematics. Therefore, it's essential to incorporate math into machine learning.

**Do physicists like maths?** Generally considered a relationship of great intimacy, mathematics has been described as "an essential tool for physics" and physics has been described as "a rich source of inspiration and insight in mathematics".

**Who is behind physics and maths tutor?** Görkem Çavlı? In his teenage years, he worked as a tennis coach, and in 2010, while still an undergraduate student, he began tutoring students in his spare time.

**Is physics maths tutor free?** PMT Education began as a website for students to access physics and maths resources for free.

**Who is the father of network theory?** Euler's solution of the Seven Bridges of Königsberg problem is considered to be the first true proof in the theory of networks.

**What is the concept of network theory?** According to theoretical physician Markus Schirmer, network theory involves the study of the way elements in a network interact. "A simple way of understanding a network is by assuming that a set of objects are connected by some sort of link," he explains.

**Who proposed network theory?** 7 Network theory — Jennifer Dunne Network theory provides a novel framework to view food webs from a mathematical perspective, and Jennifer Dunne has been at the forefront of this endeavor (Dunne et al., 2002a, 2013; Thompson et al., 2012; Williams et al., 2002).

**Who is proponent of network theory?** Proponents of "The Network Theory" include Lang (1994), Leventhal (1984), Lewis (2005) in psychology, and Colombetti (2009) in philosophy, focusing on causal-mechanistic explanations of emotions through memory networks.

**What is the four network theory?** The Four Networks Theory of Power Power is based in ideological, economic, military and political networks -- Michael Mann's "IEMP model." It's my preferred approach, leading to a class-domination theory when applied to the United States.

**What is network theory in history?** Actor–network theory (ANT) is a theoretical and methodological approach to social theory where everything in the social and natural worlds exists in constantly shifting networks of relationships. It posits that

nothing exists outside those relationships.

**What is network theory theorem?** What are some commonly used Network Theorems? Some commonly used network theorems include Ohm's Law, Kirchhoff's Law (Kirchhoff's Voltage Law and Kirchhoff's Current Law), Thevenin's Theorem, Norton's Theorem, Superposition Theorem, Maximum Power Transfer Theorem, and Millman's Theorem, among others.

**What is the main concept of the network society theory?** Van Dijk has defined the idea "network society" as a form of society increasingly organizing its relationships in media networks gradually replacing or complementing the social networks of face-to-face communication. Personal and social-network communication is supported by digital technology.

**What is network theory in psychology?** The network theory states that psychiatric symptoms causally interact with each other (Borsboom, 2017). This causal interpretation of the covariance between symptoms is justified by referring to folk psychology: they claim that it makes sense for certain symptoms to be causally related (Borsboom et al., 2019a). 3.

**What are the benefits of network theory?** Network theory in international marketing offers several benefits, including enhanced market understanding, stronger customer relationships, and improved access to resources through established networks.

**What is the power of network theory?** Networking power refers to the power of the actors and organizations included in the networks that constitute the core of the global network society over those human collectives or individuals not included in these global networks. This form of power operates by exclusion/inclusion.

**What is the network theory of knowledge?** Knowledge as a network The network refers to a set of nodes connected with relationships. Therefore, the network consists of one or more nodes connected by one or more relationships. In the figure below, the network consists of four nodes (A, B, C, D) connected by four relationships.

**What is the network approach theory?** The network approach defines the way of describing and analyzing reality (organizations, institutions, phenomena). The

application of the aforementioned network metaphor allows the indication of the regularities that constitute research areas for the organization and management sciences.

**What is the network perspective theory?** Network perspective is the ability to look beyond formal, designated relationships and see the complex web of connections between people in and beyond your organization. It's one of the most important skills to develop for yourself — and your organization.

**What is network theory in organization?** Network theories examine how individuals are connected through various social interactions, exploring the patterns and structures of these connections (Moliterno & Mahony, 2011) and also provide insights into how learning spreads in a social context (Knight & Pye, 2005).

**Who is known as the father of network?** Vinton Gray Cerf (/s??rf/; born June 23, 1943) is an American Internet pioneer and is recognized as one of "the fathers of the Internet", sharing this title with TCP/IP co-developer Bob Kahn.

**Who is the father of networking?** Ivan Misner, the "Father of Networking" - Our Special Guest!

**Who invented the network effect theory?** The modern Network Effect theory was developed based on the research of Joseph Farrell, Michael L., Carl Shapiro, and Garth Saloner in the 1990s. These researchers coined the concept using the telephone as an example.

**Who is the father of network society?** The term network society was coined by Jan van Dijk in his 1991 Dutch book *De Netwerkmatschappij* (The Network Society) and by Manuel Castells in *The Rise of the Network Society* (1996), the first part of his trilogy *The Information Age*.

### **Week-by-Week Homework for Building Writing Skills: A Comprehensive Guide**

Empowering students to become proficient writers requires consistent practice and guidance. The "Week-by-Week Homework for Building Writing Skills" resource addresses this need, providing 30 reproducible homework sheets that cater to students' developing writing abilities. These engaging activities and short writing models aim to foster students' writing skills in a systematic and effective manner.



## **What is the Purpose of the Week-by-Week Homework Packets?**

This comprehensive resource supports the systematic development of writing skills week by week. It offers a structured framework for students to practice key writing concepts, such as brainstorming, organization, sentence structure, and grammar. The take-home sheets act as valuable practice tools, reinforcing classroom lessons and enabling students to refine their writing abilities outside the classroom setting.

## **What Type of Activities Are Included in the Sheets?**

The weekly homework packets incorporate a variety of engaging and diverse activities. Students will engage in brainstorming exercises, complete sentence puzzles, analyze writing models, and compose short pieces of writing. These activities are designed to address different aspects of writing, such as idea generation, sentence construction, and overall effectiveness.

## **How Can These Homework Sheets Benefit Students?**

The consistent practice provided by the weekly homework sheets helps students improve their writing fluency and confidence. By completing these activities, students can:

- Enhance their brainstorming and planning skills.
- Develop stronger sentence structure and vocabulary.
- Improve their ability to organize and structure their writing.
- Gain familiarity with different writing genres and styles.

## **How Can Teachers Utilize the Resource?**

Teachers can incorporate the "Week-by-Week Homework for Building Writing Skills" resource into their teaching practice by:

- Assigning the homework sheets as weekly practice.
- Using the writing models to demonstrate effective writing techniques.
- Providing feedback and guidance to students on their completed work.
- Monitoring students' progress over time to identify areas for improvement.

By integrating this resource into their instruction, teachers can empower their students to become proficient and confident writers. Through the systematic practice and personalized feedback provided by these homework sheets, students can develop the foundational skills necessary for academic and personal success.

**Which version of Oracle supports JSON?** Information about using JSON data in Oracle Database 12c Release 1 (12.1. 0.2) is available in Oracle XML DB Developer's Guide . The changes in JSON support and in Oracle Database JSON Developer's Guide for Oracle Database Release 19c, Version 19.1, are described.

**How to read JSON files in Oracle 12c?** You can use database APIs to insert or modify JSON data in Oracle Database. You can use Oracle SQL function `json_transform` or `json_mergepatch` to update a JSON document. You can work directly with JSON data contained in file-system files by creating an external table that exposes it to the database.

**Can we store JSON in an Oracle Database?** You can store JSON data in Oracle Database using columns whose data types are JSON , VARCHAR2 , CLOB , or BLOB . Whichever type you use, you can manipulate JSON data as you would manipulate any other data of those types.

**Does Oracle 19c support JSON data type?** Oracle database 19c allows JSON data to instantiate user-defined object type instances, and user defined object-type instances can be converted to JSON data.

**Does Oracle 12c support JSON?** The following example demonstrates the use of JSON\_TABLE. JSON\_TABLE can also be used to generate an inline view from nested objects in JSON. Oracle Database 12c supports indexing on JSON documents.

**Which database supports JSON?** The best database for JSON This makes the MongoDB database the best natural fit for storing JSON data. You can store details of an entire object in one document, making it easier to view and query. MongoDB is the most popular JSON database as it offers many other benefits, like: Flexible schema.

**How to load JSON file in Odi 12c?**

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**How to import JSON file to Oracle Database?** In Database Explorer, right-click a table and select Import Data on the shortcut menu. The Data Import wizard opens with predefined parameters: an Oracle connection, a database, and a table to import the data to. On the Database menu click Import Data, and select a required table on the Destination table wizard page.

**How to update a JSON in Oracle?** You can use ADD clause to update JSON data in a NoSQL table. You can add one or more array elements to an existing array using the ADD clause. You can also optionally indicate the position of the new elements to be added in the array. Add a new element to the phones array at the beginning of the array.

**What is the best type of JSON file in Oracle?** Oracle recommends that you use data type JSON for JSON columns. If you instead use textual JSON storage ( VARCHAR2 , CLOB , or BLOB ) then Oracle recommends that you use an is json check constraint to ensure that column values are valid JSON instances (see Example 4-2).

**What is the maximum size of JSON in Oracle?** The restrictions associated with Oracle support of JSON data in Oracle Database are listed here. Unless otherwise specified, an error is raised if a specified limitation is not respected. Number of nesting levels for a JSON object or array: 1000, maximum. JSON field name length: 32767 bytes, maximum.

**How to query JSON data in Oracle?** You can use Oracle SQL condition json\_textcontains in a CASE expression or the WHERE clause of a SELECT statement to perform a full-text search of JSON data. You can use PL/SQL procedure CTX\_QUERY.

**Which data types does JSON not support?**

**Can I use Oracle 12c client with 19c database?** Yes. You can think of 12, 18 and 19 as being part of the same "12c" family of databases.

**How to store a JSON file in a database?**

**Can I store JSON in Oracle?** You can store JSON data in Oracle Database using columns whose data types are JSON , VARCHAR2 , CLOB , or BLOB . Whichever type you use, you can manipulate JSON data as you would manipulate any other data of those types.

**Is Oracle 12c obsolete?** Oracle Database version 12c is past end of support, as announced by Oracle. Oracle 12c Release 1 (12.2. 0.1) stands unsupported beyond March 31, 2022, and Oracle 12c Release 2 (12.1. 0.2) is unsupported beyond July 31, 2022.

**Is Oracle 12c supported?** Oracle Database 12c Release 1 (12.1) has reached its end of life on July 31, 2022. Since this support end date, Oracle no longer provides bug fixes, security updates, or patches for this version.

**Which database is fast for JSON?** Fast NoSQL performance CrateDB executes queries on JSON data (and other types of data) extremely fast, ensuring rapid access and retrieval of JSON objects and complex data structures.

**Why not use JSON as database?** Additionally JSON data has no fixed structure. You can not verify the consistency of the data stored in the JSON field without parsing the field and writing custom validations. It maybe easy to store data with variable or complex structure, but it comes at a cost.

**What is JSON compatible with?** You can insert JSON data into relational tables and JSON collections through the MQTT protocol for Java, JavaScript, C++, PHP, Python, Ruby, and other clients.

**What is the JSON datatype in Oracle 21c?** The JSON data type is an Oracle optimized binary JSON format called OSON. It is designed for faster query and DML performance in the database and in database clients from version 20c/21c upward. We create a column in a table using the JSON data type, much like we would with any other data type.

**Which types are not supported by JSON?**

**What formats does JSON support?**

**What is JSON compatible with?** You can insert JSON data into relational tables and JSON collections through the MQTT protocol for Java, JavaScript, C++, PHP, Python, Ruby, and other clients.

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