

# MATHS MATE 3 CHAPTER 30

## ANSWERS

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**What is the hardest math question ever solved?** For decades, a math puzzle has stumped the smartest mathematicians in the world.  $x^3+y^3+z^3=k$ , with  $k$  being all the numbers from one to 100, is a Diophantine equation that's sometimes known as "summing of three cubes." When there are two or more unknowns, as is the case here, only the integers are studied.

**What is the trickiest math question in the world?**

**What is the world record for the longest math problem?** Since the 1995 proof of Fermat's Last Theorem, a problem which stood for 365 years, the current longest-standing maths problem is the conjecture posed by Christian Goldbach (1690-1764),

a Russian mathematician, in 1742.

### **How to get 100 on every math test?**

**What is the app called that gives you math answers?** Billions of math problems: From elementary arithmetic to advanced calculus and everything in between, Photomath can solve billions of math problems—including word problems! Whether handwritten, in a textbook, or on a screen, Photomath is here to help you untangle your trickiest problem.

**What is e in math?** Euler's Number 'e' is a numerical constant used in mathematical calculations. The value of e is 2.718281828459045...so on. Just like pi(?), e is also an irrational number. It is described basically under logarithm concepts.

**Can I take a picture of a math problem to solve it?** To solve a math problem, point the camera at your math problem to take a picture and Photomath will show you the solution or solutions. Holding firmly and writing with a neat handwriting will make scanning faster.

### **How do I get Google to answer?**

### **How do you find math answers by photo?**

**Has  $3x-1$  been solved?** The  $3x + 1$  problem or Collatz Conjecture, also known as the  $3n + 1$  problem, is a famous unsolved problem in mathematics that has puzzled mathematicians for over half a century. The problem is deceptively simple to state, but it has resisted all attempts to solve it.

**Why is  $3x-1$  unsolvable?** Multiply by 3 and add 1. From the resulting even number, divide away the highest power of 2 to get a new odd number  $T(x)$ . If you keep repeating this operation do you eventually hit 1, no matter what odd number you began with? Simple to state, this problem remains unsolved.

### **What are the 7 unsolved mathematics?**

**What is a math question that cannot be answered?** One of the greatest unsolved mysteries in math is also very easy to write. Goldbach's Conjecture is, "Every even number (greater than two) is the sum of two primes." You check this in your head for

small numbers: 18 is  $13+5$ , and 42 is  $23+19$ .

**What is the easiest sum in the world?**

**What is the famous math riddle?** Three's company. Riddle: You know  $2 + 2$  comes to the same as  $2 \times 2$ . Now find a set of three different whole numbers whose sum is equal to their total when multiplied. Answer: The three different whole numbers whose sum is equal to their total when multiplied are 1, 2 and 3.

**Is there a math problem that has never been solved?** Of the original seven Millennium Prize Problems listed by the Clay Mathematics Institute in 2000, six remain unsolved to date: Birch and Swinnerton-Dyer conjecture. Hodge conjecture. Navier–Stokes existence and smoothness.

**What is the oldest unanswered math problem?** Goldbach's conjecture is one of the oldest and best-known unsolved problems in number theory and all of mathematics. It states that every even natural number greater than 2 is the sum of two prime numbers.

**What is the biggest number in the whole entire world?** The thing is, infinity is not a number, but a concept or idea. A "googol" is the number 1 followed by 100 zeroes. The biggest number with a name is a "googolplex," which is the number 1 followed by a googol zeroes.

**What is the math website that solves any problem?** Wolfram|Alpha has broad knowledge and deep computational power when it comes to math. Whether it be arithmetic, algebra, calculus, differential equations or anything in between, Wolfram|Alpha is up to the challenge.

**What is the best math help website?**

**What is the app that answers math questions?** Photomath is known worldwide for helping millions of learners to learn, practice, and understand math – one step at a time. Scan any math problem with the Photomath app to get step-by-step explanations with accurate solutions and a variety of teacher-approved methods.

**What is the website that helps you in math?** Khan Academy is a free website that offers thousands of math lessons for learners of all ages. From Pre-K to college

level, courses cover various math topics. Once registered at the Khan Academy website, you can learn math for free through video content, quizzes, and practice exercises.

**What is e in math?** Euler's Number 'e' is a numerical constant used in mathematical calculations. The value of e is 2.718281828459045...so on. Just like  $\pi$ (?), e is also an irrational number. It is described basically under logarithm concepts.

**What is the free AI that solves math problems?** Yes, the Mathful AI math problem solver is free to try. Cost-friendly subscriptions are available to ask even more math questions.

**How to answer math questions quickly?**

**What is purple math?** Purplemath contains lessons, links, and homework tips, all designed to help the high school or college algebra student find success. The "how to" lessons include tips and hints, point out common errors, and contain cross-links to related materials.

**Is MathHelp com a safe website?** Yes. MathHelp.com is a secure website, so signing up with a credit card is safe. To protect the privacy of our customers, all information you enter is encrypted.

**What is the website for math questions?** Mathway. Mathway allows users to solve math problems, including basic math, pre-algebra, algebra, trigonometry, pre-calculus, calculus and statistics. Problems to be solved are entered into a resizable text box.

**Where can I ask math questions and get answers for free?**

**Is there an app that answers questions?** Need to get unstuck? Socratic can help! This learning app, powered by Google AI, helps you understand your school work at a high school and university level. Ask Socratic a question and the app will find the best online resources for you to learn the concepts.

**How to find maths solutions on Google?**

**What math website gives you the answers?** Microsoft Math Solver lets you snap a picture of a problem or type it in, and it gives you instant solutions and explanations.

**Which website is best for maths?**

**Is there a free math help site?** Math planet is a free, accessible platform for learning mathematics. We offer high school math courses in Pre-algebra, Algebra 1, Algebra 2 and Geometry. We have also prepared practice tests for the SAT and ACT.

## **The Gospel of Matthew with Translators' Notes: Questions and Answers**

### **1. What is the Gospel of Matthew?**

The Gospel of Matthew is one of the four Gospels that make up the New Testament of the Christian Bible. It is traditionally attributed to the disciple Matthew and narrates the life and teachings of Jesus Christ. The Gospel focuses on themes such as Jesus' divine nature, his ethical teachings, and the kingdom of God.

### **2. What are Translators' Notes?**

Translators' notes are annotations or commentaries provided by the translators of a text that explain specific words, phrases, or passages. They are intended to enhance the reader's understanding by providing additional context, clarifying cultural references, or elucidating technical terms.

### **3. How do Translators' Notes in the Gospel of Matthew help readers?**

Translators' notes in the Gospel of Matthew can offer valuable insights into the historical, cultural, and linguistic aspects of the text. They can:

- Define unfamiliar terms or concepts
- Explain the significance of specific customs or practices
- Clarify the meaning of passages that may be obscure or ambiguous
- Provide additional information about the geography or historical context of events

### **4. What are some examples of Translators' Notes in the Gospel of Matthew?**

For example, in Matthew 5:13, translators may include a note explaining that "salt of the earth" was a common metaphor in ancient Jewish literature, referring to the preserving qualities of salt and the importance of righteous living.

Another note in Matthew 10:28 might clarify that "fear not them which kill the body" does not mean Christians should be reckless, but rather that they should not be afraid of physical persecution because God's judgment is more severe.

## **5. How can I use the Translators' Notes in the Gospel of Matthew?**

Translators' notes are a valuable resource for readers who seek a deeper understanding of the Gospel of Matthew. By referring to these notes, readers can gain additional insights into the text, appreciate its nuances, and make more informed interpretations.

## **Six Days of War: June 1967 and the Making of the Modern Middle East by Michael B. Oren**

**Question 1: What sparked the Six Days War? Answer:** A series of border skirmishes and tensions between Egypt, Syria, and Israel, culminating in Egypt's closure of the Straits of Tiran, blocking Israeli access to the Red Sea.

**Question 2: Who were the key players in the war? Answer:** Israel, led by Prime Minister Levi Eshkol and Defense Minister Moshe Dayan; Egypt, led by President Gamal Abdel Nasser; Jordan, led by King Hussein; and Syria, led by President Nouredine al-Atassi.

**Question 3: How long did the war last? Answer:** Six days, from June 5-10, 1967.

**Question 4: What were the major outcomes of the war? Answer:** Israel's decisive victory resulted in the capture of the Sinai Peninsula, the West Bank, the Gaza Strip, and the Golan Heights. These territories have since been a major source of conflict in the Middle East.

**Question 5: How did the Six Days War shape the modern Middle East? Answer:** Oren argues that the war had a profound impact on the region, leading to the Arab-Israeli conflict's intensification, the creation of Palestinian refugee camps,

and the rise of militant groups like Hezbollah. It also contributed to the Cold War tensions between the United States and the Soviet Union.

**What is a transmission line and waveguide?** Transmission Line – A two conductor structure that can support a TEM wave. Waveguide – A one conductor structure that cannot support a TEM wave. Q: What is a TEM wave? A: An electromagnetic wave wherein both the electric and magnetic fields are perpendicular to the direction of wave propagation.

**Why waveguides are prefer over two wire transmission lines?** Waveguides operate above 1 GHz with lower losses, handling higher power than coaxial cables, which are effective up to 3 GHz.

**Which is a transmission line?** Transmission lines carry electric energy from one point to another in an electric power system. They can carry alternating current or direct current or a system can be a combination of both.

**What is a transmission line in waves?** In electrical engineering, a transmission line is a specialized cable or other structure designed to conduct electromagnetic waves in a contained manner. The term applies when the conductors are long enough that the wave nature of the transmission must be taken into account.

**What is the purpose of a waveguide?** A waveguide is a hollow metallic channel that has either a rectangular or a cylindrical cross-section. The main purpose of a waveguide is to direct electromagnetic wave from a microwave source (e.g., a magnetron) to a microwave applicator (e.g., an oven cavity).

**What does a waveguide look like?** A waveguide is rectangular, circular, or oval “pipe” filled with air or dielectric material which is capable of conveying RF energy. The physical implementation of the structure determines the frequencies which may be transported. Many Eigenmodes are possible, but the lowest order is almost always used.

**What are the disadvantages of a waveguide?**

**Which of the following is a disadvantage of the waveguide as compared to a transmission line?** Waveguides have limited frequency bandwidth, are bulky, and inflexible, making installation in tight spaces difficult. They are also prone to mode

dispersion, which can cause signal distortion, and their rigid construction increases costs and complexity of maintenance.

**Which of the following is the main difference between waveguide and transmission line?** Waveguides confine high-frequency waves, minimizing loss over distance, while transmission lines are versatile, used for a broader frequency range.

**Are transmission lines AC or DC?** Electric power is normally generated, transmitted and distributed as alternating current (AC). AC power is well suited to efficient transmission and distribution, as the voltage can be increased or reduced by transformers.

**Are transmission lines Y or Delta?** The delta system is used for power transmission because of the lower cost due to the absence of neutral cable.

**What is the main function of a transmission line?** Power transmission lines are used to connect power stations and substations, and for connections between substations, in order to efficiently transmit large amounts of electricity at high voltage without loss, and therefore play a crucial role in providing electricity.

**What is the rule of thumb for transmission lines?** Whether a conductor can be considered a transmission line or not depends on the frequency content of the signal and the propagation speed along the conductor. One generally accepted rule of thumb is that if a transmission line is more than about  $1/10$  of a wavelength, then propagation effects should be considered.

**What is G in transmission line?** The transmission line is modelled with a resistance (R) and inductance (L) in series with a capacitance (C) and conductance (G) in parallel. The resistance and conductance contribute to the loss in a transmission line.

**What is the basic principle of transmission line?** A transmission line is used to connect the transmitter and the antenna. The transmission line has a single purpose for both the transmitter and the antenna. This purpose is to transfer the energy output of the transmitter to the antenna with the least possible power loss.



**How does a waveguide get damaged?** If your microwave oven is sparking or 'arcing' during cooking it may be that the waveguide cover is damaged. Usually the cover is made of a material called mica. Although strong and tough when new, over a period of time this cover absorbs moisture and food debris and becomes soft or breaks.

**What is a waveguide in a transmission line?** Waveguides are metal tubes functioning as "conduits" for carrying electromagnetic waves. They are practical only for signals of extremely high frequency, where the signal wavelength approaches the cross-sectional dimensions of the waveguide.

**What is an example of a waveguide?** waveguide, any of a class of devices that confines and directs the propagation of electromagnetic waves, such as radio waves, infrared rays, and visible light. Waveguides take many shapes and forms. Typical examples include hollow metallic tubes, coaxial cables, and optical fibres.

**What is the purpose of a wave guide?** Waveguides are used for transferring both power and communication signals. In this military radar, microwave radiation is transmitted between the source and the reflector by a waveguide.

**What is the difference between a waveguide and a cable?** Generally, as a product of the way the RF energy is carried through a waveguide with an air dielectric, waveguides tend to be able to handle higher power levels than comparable coaxial technologies.

**What type of waveguide is widely used?** Circular waveguide (optical fibers). Circular waveguides, commonly referred to as optical fibers, are the most common form of light waveguide used for optical communication. The advantage of optical fibers for sensing applications is the capability to be used as a probe.

**What is a transmission line in a microwave?** Transmission line is conductor which takes energy from one point to another point. At microwave frequencies, the following transmission lines will be employed, 1. Multi conductor lines.

**What is transmission line in radio?** The connecting link between the source and the radiator is termed a transmission line, and for moderately high radio frequencies may comprise a system of two parallel wires, or a coaxial cable or some elaboration

of these.

**What is the difference between a fiber and a waveguide?** Optical fibers represent a special kind of optical waveguide. A waveguide is a material structure that can “guide” light, i.e., let it propagate while preventing its expansion in one or two dimensions. Fibers are waveguides that guide in two dimensions and can effectively be used as flexible pipes for light.

**What is the purpose of the waveguide to coax transition?** CommScope offers a complete selection of microwave connectivity accessories to optimize your backhaul installation and performance. Waveguide-to-coaxial cable transitions are used to connect a rectangular waveguide interface to a coaxial cable flange interface.

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