

# NEW ADDITIONAL MATHEMATICS HO SOO THONG SOLVED

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**How can I solve mathematics on Google?**

**How to pass additional mathematics?** firstly basic tip is that , additional maths exam is having a strong concepts of fundamental maths concepts. so, here you have to give strong command to basic maths first. another tip is that you have to take proper rest and focus on health eating as well as you to meditate for while.

**What is the website that solves any math 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 math app that solves 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.

**Is additional math hard?** The Add Maths O Level syllabus is definitely not a breeze. You might require a lot more self-motivation. O Level students have a demanding workload. You have to balance your further math studies with your other subjects and be very sure you do not ignore them.

**What is the highest grade in additional maths?** Additional Maths is not graded from A\*- G, it's graded either a Distinction, Merit or Pass.

**What is the difference between math and additional math?** Syllabus: The syllabus for additional mathematics is usually more comprehensive than that of mathematics. Additional mathematics includes more advanced topics that are not covered in the mathematics syllabus. Exam Format: The exam format for additional mathematics is usually more challenging than that of mathematics.

**Is there a 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.

**What is the best math website for free?**

**Where can I ask math questions and get answers?** Ask MathNerds.com - A large group of math experts have banded together to provide this excellent service. Ask these people your math questions and you're sure to get a quick, correct answer. Gomath.com - This site has tutors available to answer your math questions for free.

**Can I take a picture of a math problem and get an answer?** 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 to get maths answers online?**

**How to solve maths problems quickly?**

**What is the hardest math class in the world?**

**What is the hardest math subject ever?** 1. Real Analysis: This course is sometimes referred to as the most difficult undergraduate math course because it delves deep into the theoretical foundations of calculus. It relies heavily on rigorous proofs and demands a high level of abstract thinking.

**What is the hardest skill in math?** Differential equations, real analysis, and complex analysis are some of the most challenging mathematics courses that are offered at the high school level. These courses are typically taken by students who are interested in pursuing careers in mathematics, physics, or engineering.

**What is additional maths equivalent to?** Additional maths is better than a GCSE, more like half an AS level. Additional maths is a level 3 qualification which gives UCAS points, while Further Maths is a level 2 course (GCSE equivalent).

**Is additional mathematics calculus?** Additional Mathematics is a popular O Level subject that provides students with a more in-depth understanding of various mathematical concepts. The scope of the subject includes topics such as algebra, geometry, trigonometry, and calculus.

**What grade is 50% in maths higher?** Approximately 50% of the marks on the higher paper are aimed at grade 7 and above (a 7 is the usual requirement for entry to an A-level Maths course), so most of a higher paper will be too difficult to someone who is doubtful of achieving Grade 4. Tiers cannot be mixed, so one must either take foundation or higher.

**How is additional maths graded?** Units will be graded Pass, Merit or Distinction. Learners who successfully complete any three units will be awarded the Level 2 certificate in Additional Mathematics.

**Is additional maths extended?** IGCSE Additional Mathematics is a special math course. It's an extension of the standard IGCSE Math. It includes topics like algebra, geometry, and calculus. This course helps students learn advanced math and solve problems better.

**What is math 2 in high school called?** Mathematics II 541 The standards in the integrated Mathematics II course come from the following conceptual categories: Modeling, Functions, Number and Quantity, Algebra, Geometry, and Statistics and Probability.

**How to do math in Google?** Learn how to do Basic Formulas in Google Sheets To enter a formula in Google Sheets, start by selecting the cell where you want the result to appear. Next, type an equal sign (=) followed by the formula you want to use. For example, to add two numbers together, you would enter “=A1+B1” (without the quotes).

**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

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you the solution or solutions. Holding firmly and writing with a neat handwriting will make scanning faster.

**Will Google do math calculations?** Google DeepMind's new AI systems can now solve complex math problems. AlphaProof and AlphaGeometry 2 are steps toward building systems that can reason, which could unlock exciting new capabilities.

**Can Google solve geometry problems?** Google DeepMind's new AI system can solve complex geometry problems. Its performance matches the smartest high school mathematicians and is much stronger than the previous state-of-the-art system. Google DeepMind has created an AI system that can solve complex geometry problems.

**What does Google stand for in math?** A googol is a 1 followed by 100 zeros (or  $10^{100}$ ). It was given its whimsical name in 1937 by mathematician Edward Kasner's young nephew, and became famous when an internet search engine, wanting to suggest that it could process a huge amount of data, named itself Google.

**What math is used in Google search engine?** PageRank (PR) is an algorithm used by Google Search to rank web pages in their search engine results. It is named after both the term "web page" and co-founder Larry Page. PageRank is a way of measuring the importance of website pages.

**How to do math in Google Forms?** Simply start typing the symbol you want, and it will populate. For example, if you want to type a fraction, start typing the word "fraction". Once you press "Insert Math", you will see the equation in Google Forms.

**How to find maths answers in Google?** Simply type your equation or integral into the Search bar, or take a picture with Lens, to see a step-by-step explanation and solution.

**Is there a 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.

**Is MathGPT free?** MathGPT is a free math ai tutor, that helps students solve math problems using AI, with step by step, clear explanations. MathGPT, Free AI Math Tutor is a free ai math tutor focused on helping students understand mathematical

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concepts and acts as an ai problem solver via a question and answer format.

**Which app can solve any math?** Mathway is the world's smartest math calculator for algebra, graphing, calculus and more! Mathway gives you unlimited access to math solutions that can help you understand complex concepts. Simply point your camera and snap a photo or type your math homework question for step-by-step answers.

**Do people who know math make more money?** Connecting math skills to income and satisfaction On average, the better a person was at math, the more money they made. For every one additional right answer on the eight-question math test, people reported an average of \$4,062 more in annual income.

**Will I ever use math in real life?** In fact, math is so much intertwined in our daily lives that for most people, its use goes 100% unnoticed. It's so easy to realize we are doing math when we're in a math class, completing math homework, creating a budget, handling personal finances, shopping, calculating a tip at a restaurant, etc.

**Is there an AI that can solve geometry problems?** Researchers at Google Deepmind have developed an AI that can solve International Mathematical Olympiad-level geometry problems, something previous AIs have struggled with. They provided the system with a huge number of random mathematical theorems and proofs, which it used to approximate general rules of geometry.

**Will Google do math calculations for you?** Google added new updates to Search and Lens that make it easier for users to get assistance when solving math problems. All users have to do now is type the equation or integral into the Search bar, or take a picture with Lens to get a step-by-step explanation or solution.

**What is the website that answers geometry problems?** GeoS is an end-to-end system that solves high school geometry questions. Its input is question text in natural language and diagram in raster graphics, and its output is the answer to the question.

## **The Mixed-Up Fairy Tale Storybook: Cinderella's Secret**

### **Chapter 1**

Once upon a time, there was a beautiful girl named Cinderella. But she had a wicked stepmother and two mean stepsisters. They made her work hard and treated her like a servant.

**Questions:**

- Who is the main character?
- Who is mean to Cinderella?

**Chapter 2**

One day, the prince invited everyone to a grand ball. But Cinderella's stepmother refused to let her go. Cinderella was heartbroken.

**Questions:**

- Why is Cinderella sad?
- Who invited everyone to the ball?

**Chapter 3**

Suddenly, a fairy godmother appeared. She waved her magic wand and turned a pumpkin into a golden carriage, mice into horses, and a rat into a coachman.

**Questions:**

- Who helped Cinderella?
- What did the fairy godmother turn into a carriage?

**Chapter 4**

Cinderella went to the ball and danced with the prince. But at midnight, her magic wore off. She had to run away, leaving behind a glass slipper.

**Questions:**

- What happened to Cinderella at the ball?
- What did she forget behind?

## Chapter 5

The prince searched for the girl who fit the slipper. He found Cinderella and they lived happily ever after.

### Questions:

- How did the prince find Cinderella?
- What happened to Cinderella and the prince?

## Strategic Management, 9th Edition by Hitt

### Question 1: What is the purpose of strategic management?

**Answer 1:** Strategic management involves the formulation and implementation of strategies designed to achieve an organization's vision and mission. It aims to guide organizations in making informed decisions, aligning resources, and responding effectively to external and internal challenges and opportunities.

### Question 2: Explain the components of the strategic management process.

**Answer 2:** The strategic management process consists of environmental scanning, strategy formulation, strategy implementation, and strategy evaluation. Environmental scanning involves analyzing external and internal factors that affect the organization. Strategy formulation involves developing long-term plans and objectives. Strategy implementation puts strategies into action, while strategy evaluation assesses the effectiveness of implemented strategies.

### Question 3: Describe the different types of organizational strategies.

**Answer 3:** Common organizational strategies include cost leadership, differentiation, focus, and integration. Cost leadership involves achieving a low-cost advantage by reducing production or operating costs. Differentiation involves creating unique products or services that set an organization apart from competitors. Focus involves targeting a specific market segment or niche. Integration involves merging with or acquiring other organizations to increase control over the supply chain or reduce competition.

**Question 4: Discuss the role of leadership in strategic management.**

**Answer 4:** Effective leadership is essential for successful strategic management. Leaders play a crucial role in inspiring vision, motivating employees, and aligning the organization's resources towards achieving strategic objectives. They also facilitate communication, foster collaboration, and empower teams to execute strategies effectively.

**Question 5: What are the challenges and trends in contemporary strategic management?**

**Answer 5:** Organizations face challenges such as globalization, technological advancements, increased competition, and regulatory changes that necessitate adaptation. Trends in strategic management include the increasing importance of innovation, sustainability, and digital transformation. Organizations must stay abreast of these challenges and trends to remain competitive and effectively respond to evolving business landscapes.

**Thermodynamics by Yunus Cengel: 3rd Edition Solution**

**Question 1:** A closed system undergoes an isothermal process during which its entropy increases by 2 kJ/K. If the temperature of the system is 300 K, determine the heat transfer during the process.

**Answer:** According to the Second Law of Thermodynamics, for a closed isothermal system, heat transfer (Q) is given by:

$$Q = T \cdot \Delta S$$

Where T is the temperature and  $\Delta S$  is the change in entropy.

Substituting the given values, we get:

$$Q = 300 \text{ K} \cdot 2 \text{ kJ/K}$$

$$Q = 600 \text{ kJ}$$

**Question 2:** A heat engine operates between a heat source at 800°C and a heat sink at 200°C. Determine the maximum possible thermal efficiency of the engine.



**Answer:** The maximum possible thermal efficiency (?) of a heat engine is given by:

$$\eta = 1 - (T_{\text{sink}} / T_{\text{source}})$$

Where  $T_{\text{sink}}$  is the temperature of the heat sink and  $T_{\text{source}}$  is the temperature of the heat source.

Substituting the given values, we get:

$$\eta = 1 - (573 \text{ K} / 1073 \text{ K})$$

$$\eta = 0.469 \text{ or } 46.9\%$$

**Question 3:** A gas undergoes a polytropic process with  $n = 1.2$ . If the initial volume is  $0.5 \text{ m}^3$  and the final volume is  $2 \text{ m}^3$ , determine the work done during the process.

**Answer:** For a polytropic process, the work done ( $W$ ) is given by:

$$W = (P_1 * V_1 - P_2 * V_2) / (1 - n)$$

Where  $P_1$  and  $V_1$  are the initial pressure and volume, and  $P_2$  and  $V_2$  are the final pressure and volume.

Assuming an ideal gas, we can relate the pressures and volumes using  $PV^n = \text{constant}$ . Solving for  $P_2$ , we get:

$$P_2 = P_1 * (V_1 / V_2)^n$$

Substituting the given values, we get:

$$P_2 = P_1 * (0.5 \text{ m}^3 / 2 \text{ m}^3)^{1.2}$$

$$P_2 = 0.354 * P_1$$

Now, we can calculate the work done:

$$W = (P_1 * 0.5 \text{ m}^3 - 0.354 * P_1 * 2 \text{ m}^3) / (1 - 1.2)$$

$$W = 0.177 * P_1 * V_1$$

**Question 4:** A mixture of two gases has a mass fraction of 40% for oxygen and 60% for nitrogen. Determine the molar mass of the mixture.

**Answer:** The molar mass ( $M_{\text{mix}}$ ) of a mixture is given by:

$$M_{\text{mix}} = (x_1 * M_1 + x_2 * M_2) / (x_1 + x_2)$$

Where  $x_1$  and  $M_1$  are the mass fraction and molar mass of gas 1, and  $x_2$  and  $M_2$  are the mass fraction and molar mass of gas 2.

For oxygen (O<sub>2</sub>),  $M_1 = 32$  g/mol and  $x_1 = 0.4$ . For nitrogen (N<sub>2</sub>),  $M_2 = 28$  g/mol and  $x_2 = 0.6$ .

Substituting the values, we get:

$$M_{\text{mix}} = ((0.4 * 32 \text{ g/mol}) + (0.6 * 28 \text{ g/mol})) / (0.4 + 0.6)$$

$$M_{\text{mix}} = 29.6 \text{ g/mol}$$

**Question 5:** A steam turbine receives steam at a temperature of 500°C and pressure of 10 MPa. The steam expands isentropically to a pressure of 100 kPa. Determine the exit temperature and specific work output of the turbine.

**Answer:** For an isentropic process, the entropy of the steam remains constant. Using steam tables, we can find the specific enthalpy ( $h$ ) of the steam at the inlet and outlet conditions:

$$h_1 = 3381.9 \text{ kJ/kg} \quad (T = 500^\circ\text{C}, P = 10 \text{ MPa})$$

$$h_2 = 2581.9 \text{ kJ/kg} \quad (T = ?, P = 100 \text{ kPa})$$

The specific work output ( $w$ ) of the turbine is given by:

$$w = h_1 - h_2$$

Substituting the values, we get:

$$w = 3381.9 \text{ kJ/kg} - 2581.9 \text{ kJ/kg}$$

$$w = 800 \text{ kJ/kg}$$

To find the exit temperature, we can use the specific enthalpy and entropy at the outlet:

$$s_2 = 6.5876 \text{ kJ/kg-K} \quad (h_2 = 2581.9 \text{ kJ/kg}, P = 100 \text{ kPa})$$

Using steam tables, we find that the exit temperature ( $T_2$ ) corresponding to this specific entropy and pressure is:

$$T_2 = 133.1^{\circ}\text{C}$$

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