

GCSE Mathematics 1MA0

Formulae: Higher Tier

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Volume of prism = area of cross section $\times$ length



Volume of sphere = $\frac{4}{3}\pi r^3$

Surface area of sphere = $4\pi r^2$



In any triangle ABC



Sine Rule $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

Cosine Rule $a^2 = b^2 + c^2 - 2bc \cos A$

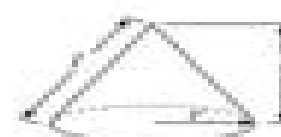
Area of triangle = $\frac{1}{2}ab \sin C$

Area of trapezium = $\frac{1}{2}(a + b)h$



Volume of cone = $\frac{1}{3}\pi r^2 h$

Curved surface area of cone = πrl



The Quadratic Equation

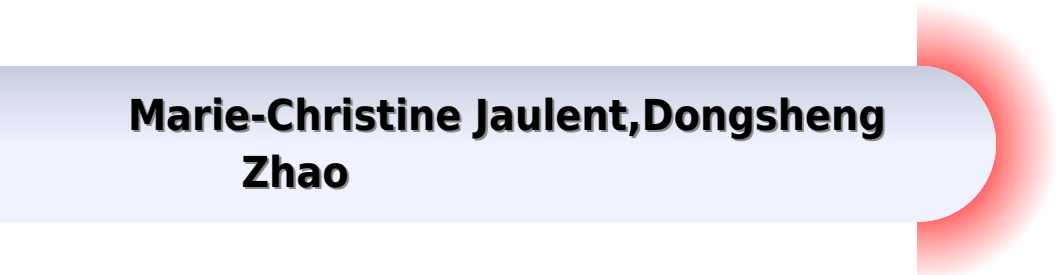
The solutions of $ax^2 + bx + c = 0$ where $a \neq 0$, are given by

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



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**Marie-Christine Jaulent, Dongsheng
Zhao**



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Rising Stars in Thyroid Endocrinology: 2023 Silvia Martina Ferrari, 2024-02-15 We are delighted to present the Rising Stars in Thyroid Endocrinology 2023 article collection This collection showcases the high quality work of internationally recognized researchers in the early stages of their independent careers All Rising Star researchers were individually nominated by the Frontiers in Endocrinology editors in recognition of their potential to influence the future directions in their respective fields The work presented here highlights the diversity of research performed across the entire breadth of thyroid endocrinology and presents advances in theory experiment and methodology with applications to compelling problems

Advances in Engineering Materials and Applied Mechanics Guangde Zhang, Quanjie Gao, Qiang Xu, 2015-10-22 With the rapid development of Machinery Materials Science and Engineering Application discussion on new ideas related mechanical engineering and materials science arise In this proceedings volume the author s are focussed on Machinery Materials Science and Engineering Applications and other related topics The Conference has pro

Library of Congress Catalog: Motion Pictures and Filmstrips Library of Congress, 1968 **Advances in Marine Environmental Protection: Challenges, Solutions and Perspectives** Mehran Idris Khan, Yen-Chiang Chang, Wen-Hong Liu, 2025-04-29 Environments have no boundaries and no borders Managing oceanic environments particularly the threats and risks of pollution should also consider the shared responsibility of all coastal states Emerging issues for oceanic pollution governance include global changes like rising temperature ocean acidification but also disturbances of ecosystem functioning by plastic and pollution by other emerging contaminants for example noise pollution and deep sea mining These call for efficient and sustainable prevention and restoration strategies such as such as efficient urban and industrial sewage treatment plants efficiently administered transnational marine protected areas and among others sustainable aquaculture extensive small scale fisheries Environmental protection warrants the development of interrelationships between marine sciences relevant industries and ocean governance developing internationally accepted rules and regulations for sustainable ocean management This Research Topic will explore possible new domains of ocean governance and the marine environment from the interdisciplinary perspectives of the rule of law including the international agreement on equal conventions the Convention on Facilitation of International Maritime Traffic the Convention on the International Regulation for Preventing Collisions at Sea and International Convention for the Prevention of Pollution from Ships MARPOL **Subject Catalog** Library of Congress, 1982

Bulletin of the Atomic Scientists , 1969-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Journal** American Chemical Society, 2002 **Subject Catalog, 1982** Library of Congress, 1982 **MEDINFO 2017: Precision Healthcare through Informatics** Marie-Christine Jaulent, Dongsheng Zhao, 2018-01-15 Medical informatics is a field which continues to evolve

with developments and improvements in foundational methods applications and technology constantly offering opportunities for supporting the customization of healthcare to individual patients This book presents the proceedings of the 16th World Congress of Medical and Health Informatics MedInfo2017 held in Hangzhou China in August 2017 which also marked the 50th anniversary of the International Medical Informatics Association IMIA The central theme of MedInfo2017 was Precision Healthcare through Informatics and the scientific program was divided into five tracks connected and digital health human data science human organizational and social aspects knowledge management and quality and safety and patient outcomes The 249 accepted papers and 168 posters included here span the breadth and depth of sub disciplines in biomedical and health informatics such as clinical informatics nursing informatics consumer health informatics public health informatics human factors in healthcare bioinformatics translational informatics quality and safety research at the intersection of biomedical and health informatics and precision medicine The book will be of interest to all those who wish to keep pace with advances in the science education and practice of biomedical and health informatics worldwide *Films and Other Materials for Projection* Library of Congress,1968

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